

Expand the logs.

Document No.LEX3007001

1. $\log \sqrt{x^5} \sqrt[6]{y^2} =$

7. $\log \left(\sqrt[3]{x} \sqrt[4]{y} \right)^3 =$

2. $\log \frac{\sqrt[3]{x^3}}{\sqrt[3]{(x+y)^5}} =$

8. $\log \left(\frac{\sqrt[6]{x}}{\sqrt[5]{y}} \right)^5 =$

3. $\log \left(\sqrt[6]{x} \sqrt[4]{y} \right)^3 =$

9. $\log \frac{\sqrt[4]{x}}{\sqrt[6]{(x+y)}} =$

4. $\log \left(\sqrt[6]{x} \sqrt[4]{y} \right)^2 =$

10. $\log \sqrt[4]{x^5} \sqrt[4]{y} =$

5. $\log \frac{\sqrt{x^4}}{\sqrt[5]{(x+y)}} =$

11. $\log \left(\sqrt[3]{(x+y)} \sqrt{y^3} \right) =$

6. $\log \left(\frac{\sqrt[5]{x}}{\sqrt[6]{y}} \right)^2 =$

12. $\log \frac{\sqrt[6]{x}}{\sqrt[4]{(x+y)^3}} =$

Expand the logs.

Document No.LEX3007002

$$1. \log \left(\sqrt[5]{(x+y)} \sqrt[5]{y^5} \right) =$$

$$7. \log \left(\frac{\sqrt[6]{x}}{\sqrt[6]{y}} \right)^4 =$$

$$2. \log \sqrt[3]{x^2} \sqrt[3]{y} =$$

$$8. \log \sqrt[6]{x} \sqrt[6]{y^2} =$$

$$3. \log \left(\frac{\sqrt[5]{x}}{\sqrt[4]{y}} \right)^5 =$$

$$9. \log \sqrt{x^2} \sqrt[4]{y^2} =$$

$$4. \log \left(\frac{\sqrt[3]{x}}{\sqrt{y}} \right)^4 =$$

$$10. \log \sqrt[5]{x} \sqrt[3]{y^2} =$$

$$5. \log \left(\sqrt{(x+y)^5} \sqrt[6]{y^3} \right) =$$

$$11. \log \left(\sqrt[5]{x} \sqrt[6]{y} \right)^1 =$$

$$6. \log \left(\frac{\sqrt[6]{x}}{\sqrt[4]{y}} \right)^2 =$$

$$12. \log \left(\frac{\sqrt[3]{x}}{\sqrt[6]{y}} \right)^4 =$$

Expand the logs.

Document No.LEX3007003

$$1. \log \left(\frac{\sqrt{x}}{\sqrt[4]{y}} \right)^5 =$$

$$7. \log \left(\sqrt[4]{x} \sqrt[4]{y} \right)^1 =$$

$$2. \log \left(\frac{\sqrt[5]{x}}{\sqrt[5]{y}} \right)^5 =$$

$$8. \log \sqrt[4]{x^3} \sqrt[5]{y^4} =$$

$$3. \log \frac{\sqrt{x^3}}{\sqrt[4]{(x+y)}} =$$

$$9. \log \left(\sqrt[3]{(x+y)^3} \sqrt[3]{y} \right) =$$

$$4. \log \left(\sqrt[4]{(x+y)^4} \sqrt[6]{y^5} \right) =$$

$$10. \log \left(\frac{\sqrt{x}}{\sqrt[3]{y}} \right)^2 =$$

$$5. \log \left(\sqrt[5]{x} \sqrt[5]{y} \right)^4 =$$

$$11. \log \frac{\sqrt[6]{x^3}}{\sqrt[3]{y^3}} =$$

$$6. \log \left(\frac{\sqrt{x}}{\sqrt[3]{y}} \right)^2 =$$

$$12. \log \frac{\sqrt[4]{x^2}}{\sqrt{y}} =$$

Expand the logs.

Document No.LEX3007004

$$1. \log \left(\frac{\sqrt[3]{x}}{\sqrt{y}} \right)^5 =$$

$$7. \log \frac{\sqrt[5]{x^4}}{\sqrt[3]{y}} =$$

$$2. \log \frac{\sqrt[4]{x^5}}{\sqrt{(x+y)^5}} =$$

$$8. \log \left(\sqrt[3]{x} \sqrt[3]{y} \right)^1 =$$

$$3. \log \frac{\sqrt[5]{x}}{\sqrt[4]{(x+y)^5}} =$$

$$9. \log \left(\sqrt[4]{(x+y)^3} \sqrt[4]{y} \right) =$$

$$4. \log \left(\frac{\sqrt[6]{x}}{\sqrt[6]{y}} \right)^3 =$$

$$10. \log \frac{\sqrt[3]{x^5}}{\sqrt[5]{(x+y)}} =$$

$$5. \log \left(\sqrt{(x+y)^2} \sqrt[3]{y^5} \right) =$$

$$11. \log \frac{\sqrt{x^2}}{\sqrt[6]{(x+y)^4}} =$$

$$6. \log \left(\frac{\sqrt[6]{x}}{\sqrt[5]{y}} \right)^4 =$$

$$12. \log \sqrt[6]{x^5} \sqrt[4]{y} =$$

Expand the logs.

Document No.LEX3007005

$$1. \log \left(\frac{\sqrt{x}}{\sqrt[6]{y}} \right)^2 =$$

$$7. \log \frac{\sqrt[6]{x^4}}{\sqrt[3]{(x+y)^3}} =$$

$$2. \log \left(\frac{\sqrt{x}}{\sqrt[3]{y}} \right)^4 =$$

$$8. \log \left(\sqrt[4]{x} \sqrt[3]{y} \right)^4 =$$

$$3. \log \frac{\sqrt[3]{x^5}}{\sqrt[4]{y}} =$$

$$9. \log \left(\frac{\sqrt[4]{x}}{\sqrt[3]{y}} \right)^5 =$$

$$4. \log \left(\sqrt{x} \sqrt[3]{y} \right)^1 =$$

$$10. \log \frac{\sqrt[4]{x^3}}{\sqrt{y^3}} =$$

$$5. \log \left(\sqrt[3]{x} \sqrt[4]{y} \right)^3 =$$

$$11. \log \left(\sqrt[5]{(x+y)} \sqrt[3]{y} \right) =$$

$$6. \log \frac{\sqrt[6]{x^4}}{\sqrt[6]{y^2}} =$$

$$12. \log \frac{\sqrt[4]{x}}{\sqrt{y^5}} =$$

Expand the logs.

Document No.LEX3007006

1. $\log \sqrt[3]{x^4} \sqrt{y^4} =$

7. $\log \sqrt[6]{x^2} \sqrt[3]{y^2} =$

2. $\log \left(\frac{\sqrt[4]{x}}{\sqrt[6]{y}} \right)^3 =$

8. $\log \left(\sqrt[4]{(x+y)} \sqrt[6]{y^5} \right) =$

3. $\log \left(\sqrt[4]{(x+y)^5} \sqrt{y^5} \right) =$

9. $\log \left(\sqrt[5]{(x+y)^3} \sqrt[4]{y^3} \right) =$

4. $\log \frac{\sqrt[4]{x}}{\sqrt[6]{y^5}} =$

10. $\log \frac{\sqrt[4]{x^5}}{\sqrt[3]{y^4}} =$

5. $\log \left(\sqrt[3]{x} \sqrt[5]{y} \right)^1 =$

11. $\log \left(\sqrt[5]{x} \sqrt[3]{y} \right)^1 =$

6. $\log \frac{\sqrt{x}}{\sqrt[6]{(x+y)^5}} =$

12. $\log \left(\sqrt[6]{x} \sqrt[4]{y} \right)^1 =$

Expand the logs.

Document No.LEX3007007

1. $\log \sqrt[5]{x^5} \sqrt[6]{y^4} =$

7. $\log \sqrt[4]{x^5} \sqrt[5]{y^3} =$

2. $\log \frac{\sqrt[6]{x^4}}{\sqrt[6]{(x+y)^5}} =$

8. $\log \left(\frac{\sqrt[6]{x}}{\sqrt[6]{y}} \right)^5 =$

3. $\log \left(\sqrt{(x+y)^3} \sqrt[4]{y} \right) =$

9. $\log \left(\sqrt{(x+y)^3} \sqrt[3]{y^3} \right) =$

4. $\log \sqrt[6]{x} \sqrt[6]{y} =$

10. $\log \left(\sqrt[3]{x} \sqrt[5]{y} \right)^3 =$

5. $\log \left(\sqrt[5]{x} \sqrt[4]{y} \right)^4 =$

11. $\log \left(\sqrt[3]{x} \sqrt{y} \right)^1 =$

6. $\log \frac{\sqrt{x^3}}{\sqrt{y^5}} =$

12. $\log \frac{\sqrt[5]{x^4}}{\sqrt[3]{(x+y)^4}} =$

Expand the logs.

Document No.LEX3007008

$$1. \log \frac{\sqrt[3]{x^2}}{\sqrt[3]{(x+y)^2}} =$$

$$7. \log \left(\sqrt[5]{(x+y)^3} \sqrt[6]{y^5} \right) =$$

$$2. \log \left(\sqrt[4]{(x+y)^4} \sqrt[5]{y^5} \right) =$$

$$8. \log \sqrt{x^5} \sqrt[6]{y^4} =$$

$$3. \log \frac{\sqrt{x^2}}{\sqrt[4]{(x+y)^4}} =$$

$$9. \log \frac{\sqrt[4]{x^3}}{\sqrt[6]{(x+y)}} =$$

$$4. \log \left(\sqrt[5]{(x+y)^2} \sqrt[5]{y^3} \right) =$$

$$10. \log \sqrt[6]{x^3} \sqrt[5]{y^2} =$$

$$5. \log \frac{\sqrt[4]{x^5}}{\sqrt[4]{(x+y)^5}} =$$

$$11. \log \left(\sqrt[6]{x} \sqrt[6]{y} \right)^4 =$$

$$6. \log \frac{\sqrt{x^2}}{\sqrt[5]{y^4}} =$$

$$12. \log \left(\sqrt[6]{(x+y)^3} \sqrt[4]{y^2} \right) =$$

Expand the logs.

Document No.LEX3007009

1. $\log \frac{\sqrt[3]{x^4}}{\sqrt[5]{y^5}} =$

7. $\log \sqrt[5]{x^4} \sqrt[5]{y^3} =$

2. $\log (\sqrt[6]{x} \sqrt{y})^4 =$

8. $\log (\sqrt{x} \sqrt{y})^2 =$

3. $\log (\sqrt[6]{(x+y)} \sqrt[4]{y^3}) =$

9. $\log \left(\frac{\sqrt[3]{x}}{\sqrt[5]{y}}\right)^3 =$

4. $\log (\sqrt[3]{x} \sqrt[6]{y})^5 =$

10. $\log \sqrt[6]{x^2} \sqrt{y} =$

5. $\log (\sqrt[3]{x} \sqrt[3]{y})^3 =$

11. $\log (\sqrt[3]{x} \sqrt[4]{y})^3 =$

6. $\log \frac{\sqrt[6]{x^4}}{\sqrt{y}} =$

12. $\log \sqrt[4]{x^4} \sqrt[4]{y^5} =$

Expand the logs.

Document No.LEX3007010

1. $\log \frac{\sqrt[3]{x^3}}{\sqrt{y^4}} =$

7. $\log \sqrt{x^3} \sqrt[3]{y^3} =$

2. $\log \sqrt[4]{x^2} \sqrt[6]{y^4} =$

8. $\log \left(\sqrt[6]{x} \sqrt{y} \right)^2 =$

3. $\log \left(\sqrt[3]{(x+y)^5} \sqrt[6]{y^2} \right) =$

9. $\log \frac{\sqrt[4]{x^4}}{\sqrt[4]{y^3}} =$

4. $\log \frac{\sqrt[4]{x^4}}{\sqrt{(x+y)^4}} =$

10. $\log \left(\sqrt[5]{(x+y)^2} \sqrt[6]{y^2} \right) =$

5. $\log \left(\frac{\sqrt[4]{x}}{\sqrt[3]{y}} \right)^4 =$

11. $\log \left(\sqrt[3]{x} \sqrt{y} \right)^3 =$

6. $\log \frac{\sqrt[6]{x}}{\sqrt[6]{y}} =$

12. $\log \frac{\sqrt[3]{x^3}}{\sqrt[4]{(x+y)^2}} =$

Expand the logs.

Document No.LEX3007011

1. $\log \left(\frac{\sqrt[6]{x}}{\sqrt{y}} \right)^1 =$

7. $\log \left(\frac{\sqrt[3]{x}}{\sqrt[3]{y}} \right)^2 =$

2. $\log \frac{\sqrt[4]{x^5}}{\sqrt[4]{(x+y)^4}} =$

8. $\log \sqrt[5]{x^5} \sqrt[3]{y} =$

3. $\log \frac{\sqrt[5]{x}}{\sqrt[5]{y}} =$

9. $\log \frac{\sqrt[5]{x^4}}{\sqrt[3]{(x+y)^4}} =$

4. $\log \left(\sqrt[3]{x} \sqrt[6]{y} \right)^4 =$

10. $\log \left(\sqrt[6]{x} \sqrt[4]{y} \right)^3 =$

5. $\log \left(\sqrt[5]{x} \sqrt[6]{y} \right)^4 =$

11. $\log \sqrt{x^5} \sqrt[3]{y^3} =$

6. $\log \left(\sqrt{x} \sqrt[6]{y} \right)^5 =$

12. $\log \frac{\sqrt{x^5}}{\sqrt[4]{y^4}} =$

Expand the logs.

Document No.LEX3007012

1. $\log \sqrt[4]{x^2} \sqrt[4]{y^2} =$

7. $\log \sqrt[5]{x^5} \sqrt[3]{y^4} =$

2. $\log \sqrt[6]{x^5} \sqrt[5]{y^2} =$

8. $\log \left(\sqrt{(x+y)} \sqrt[5]{y} \right) =$

3. $\log \left(\sqrt[5]{(x+y)^3} \sqrt[6]{y} \right) =$

9. $\log \left(\sqrt[5]{x} \sqrt[4]{y} \right)^5 =$

4. $\log \left(\sqrt{x} \sqrt[3]{y} \right)^3 =$

10. $\log \left(\sqrt[5]{(x+y)^2} \sqrt{y} \right) =$

5. $\log \frac{\sqrt[6]{x^3}}{\sqrt[5]{(x+y)^3}} =$

11. $\log \left(\sqrt{x} \sqrt[6]{y} \right)^5 =$

6. $\log \left(\sqrt[3]{x} \sqrt[3]{y} \right)^5 =$

12. $\log \frac{\sqrt[3]{x^3}}{\sqrt[3]{y^3}} =$

Expand the logs.

Document No.LEX3007013

$$1. \log \left(\sqrt[5]{x} \sqrt[5]{y} \right)^1 =$$

$$7. \log \left(\sqrt[3]{x} \sqrt[4]{y} \right)^2 =$$

$$2. \log \sqrt[3]{x^5} \sqrt[4]{y^3} =$$

$$8. \log \left(\sqrt[5]{x} \sqrt[3]{y} \right)^5 =$$

$$3. \log \left(\sqrt[5]{(x+y)^2} \sqrt[3]{y^5} \right) =$$

$$9. \log \sqrt{x^4} \sqrt[5]{y^5} =$$

$$4. \log \frac{\sqrt[4]{x}}{\sqrt{(x+y)^3}} =$$

$$10. \log \left(\frac{\sqrt[5]{x}}{\sqrt[5]{y}} \right)^4 =$$

$$5. \log \left(\frac{\sqrt[3]{x}}{\sqrt[4]{y}} \right)^2 =$$

$$11. \log \frac{\sqrt{x^2}}{\sqrt{y^2}} =$$

$$6. \log \left(\frac{\sqrt[3]{x}}{\sqrt[3]{y}} \right)^4 =$$

$$12. \log \left(\sqrt[4]{x} \sqrt[4]{y} \right)^3 =$$

Expand the logs.

Document No.LEX3007014

1. $\log \frac{\sqrt[4]{x^2}}{\sqrt[4]{(x+y)^2}} =$

7. $\log \frac{\sqrt{x^2}}{\sqrt[5]{y^2}} =$

2. $\log (\sqrt[6]{x} \sqrt[3]{y})^1 =$

8. $\log \left(\frac{\sqrt[4]{x}}{\sqrt[4]{y}}\right)^2 =$

3. $\log \frac{\sqrt[6]{x^2}}{\sqrt[3]{(x+y)^3}} =$

9. $\log (\sqrt[3]{x} \sqrt[5]{y})^4 =$

4. $\log \left(\frac{\sqrt[6]{x}}{\sqrt[5]{y}}\right)^1 =$

10. $\log (\sqrt{x} \sqrt[4]{y})^5 =$

5. $\log \sqrt[4]{x^5} \sqrt[6]{y^4} =$

11. $\log (\sqrt[3]{x} \sqrt[5]{y})^5 =$

6. $\log (\sqrt[3]{x} \sqrt{y})^1 =$

12. $\log \sqrt[5]{x^3} \sqrt[4]{y^4} =$

Expand the logs.

Document No.LEX3007015

$$1. \log \left(\sqrt[5]{(x+y)} \sqrt[3]{y} \right) =$$

$$7. \log \sqrt[3]{x^5} \sqrt{y^5} =$$

$$2. \log \sqrt[4]{x} \sqrt[6]{y} =$$

$$8. \log \frac{\sqrt{x}}{\sqrt[6]{(x+y)}} =$$

$$3. \log \frac{\sqrt[3]{x^2}}{\sqrt[6]{y^3}} =$$

$$9. \log \frac{\sqrt[6]{x^5}}{\sqrt[6]{(x+y)}} =$$

$$4. \log \left(\sqrt[5]{x} \sqrt[3]{y} \right)^3 =$$

$$10. \log \left(\sqrt[3]{(x+y)^4} \sqrt[3]{y} \right) =$$

$$5. \log \frac{\sqrt[6]{x^2}}{\sqrt{y^3}} =$$

$$11. \log \left(\sqrt[5]{x} \sqrt[4]{y} \right)^1 =$$

$$6. \log \frac{\sqrt[3]{x^4}}{\sqrt{(x+y)^5}} =$$

$$12. \log \frac{\sqrt[3]{x^2}}{\sqrt[3]{(x+y)}} =$$

Expand the logs.

Document No.LEX3007016

$$1. \log \left(\sqrt[4]{x} \sqrt[6]{y} \right)^4 =$$

$$7. \log \left(\frac{\sqrt[3]{x}}{\sqrt[3]{y}} \right)^4 =$$

$$2. \log \left(\sqrt{x} \sqrt{y} \right)^2 =$$

$$8. \log \left(\frac{\sqrt[3]{x}}{\sqrt{y}} \right)^1 =$$

$$3. \log \left(\sqrt[5]{x} \sqrt[3]{y} \right)^2 =$$

$$9. \log \frac{\sqrt[5]{x^5}}{\sqrt[5]{(x+y)^4}} =$$

$$4. \log \left(\sqrt{(x+y)^4} \sqrt[6]{y^4} \right) =$$

$$10. \log \frac{\sqrt[3]{x^2}}{\sqrt{(x+y)^3}} =$$

$$5. \log \frac{\sqrt[4]{x^3}}{\sqrt[6]{y^4}} =$$

$$11. \log \sqrt[5]{x^3} \sqrt[4]{y} =$$

$$6. \log \left(\frac{\sqrt[3]{x}}{\sqrt[5]{y}} \right)^2 =$$

$$12. \log \frac{\sqrt[3]{x^3}}{\sqrt[5]{(x+y)^4}} =$$

Expand the logs.

Document No.LEX3007017

1. $\log \left(\frac{\sqrt[6]{x}}{\sqrt[6]{y}} \right)^1 =$

7. $\log \left(\sqrt[3]{x} \sqrt[3]{y} \right)^3 =$

2. $\log \left(\sqrt[6]{(x+y)^5} \sqrt[6]{y} \right) =$

8. $\log \left(\sqrt[6]{(x+y)} \sqrt[4]{y^3} \right) =$

3. $\log \frac{\sqrt[3]{x^4}}{\sqrt{y^2}} =$

9. $\log \frac{\sqrt[5]{x^3}}{\sqrt{(x+y)^3}} =$

4. $\log \frac{\sqrt[5]{x^3}}{\sqrt[3]{(x+y)^3}} =$

10. $\log \left(\sqrt{(x+y)} \sqrt[4]{y^5} \right) =$

5. $\log \frac{\sqrt[6]{x}}{\sqrt[6]{y^2}} =$

11. $\log \frac{\sqrt[5]{x^5}}{\sqrt{(x+y)}} =$

6. $\log \left(\frac{\sqrt[3]{x}}{\sqrt[6]{y}} \right)^1 =$

12. $\log \sqrt[5]{x} \sqrt[5]{y} =$

Expand the logs.

Document No.LEX3007018

1. $\log \frac{\sqrt[6]{x^2}}{\sqrt[4]{y^4}} =$

7. $\log \left(\sqrt[6]{x} \sqrt[6]{y} \right)^3 =$

2. $\log \frac{\sqrt[5]{x^4}}{\sqrt[4]{y^3}} =$

8. $\log \frac{\sqrt[5]{x^4}}{\sqrt[4]{y^2}} =$

3. $\log \sqrt[3]{x^5} \sqrt[6]{y^2} =$

9. $\log \sqrt[5]{x^5} \sqrt[6]{y^3} =$

4. $\log \frac{\sqrt{x^2}}{\sqrt[3]{(x+y)^3}} =$

10. $\log \left(\sqrt[6]{x} \sqrt[6]{y} \right)^5 =$

5. $\log \left(\sqrt[6]{x} \sqrt[6]{y} \right)^3 =$

11. $\log \left(\sqrt[3]{(x+y)^3} \sqrt[5]{y^4} \right) =$

6. $\log \left(\sqrt[5]{x} \sqrt[5]{y} \right)^2 =$

12. $\log \left(\sqrt{x} \sqrt[5]{y} \right)^4 =$

Expand the logs.

Document No.LEX3007019

1. $\log \frac{\sqrt[6]{x}}{\sqrt[3]{y^3}} =$

7. $\log \sqrt[5]{x} \sqrt[6]{y^5} =$

2. $\log (\sqrt[6]{x} \sqrt[6]{y})^3 =$

8. $\log \frac{\sqrt[5]{x^2}}{\sqrt{y^3}} =$

3. $\log (\sqrt[6]{(x+y)^4} \sqrt{y^4}) =$

9. $\log \sqrt[5]{x^3} \sqrt[6]{y^5} =$

4. $\log \sqrt{x^2} \sqrt[4]{y} =$

10. $\log \frac{\sqrt[5]{x^2}}{\sqrt[6]{y^3}} =$

5. $\log \left(\frac{\sqrt[3]{x}}{\sqrt[5]{y}} \right)^5 =$

11. $\log \sqrt[4]{x^4} \sqrt[3]{y} =$

6. $\log \sqrt[3]{x^3} \sqrt[6]{y^5} =$

12. $\log \left(\frac{\sqrt[6]{x}}{\sqrt[4]{y}} \right)^1 =$

Expand the logs.

Document No.LEX3007020

$$1. \log \left(\sqrt[5]{(x+y)^4} \sqrt[5]{y^4} \right) =$$

$$7. \log \frac{\sqrt{x^5}}{\sqrt{(x+y)^5}} =$$

$$2. \log \left(\sqrt[5]{(x+y)} \sqrt[5]{y^4} \right) =$$

$$8. \log \frac{\sqrt[5]{x^4}}{\sqrt[6]{(x+y)^4}} =$$

$$3. \log \left(\sqrt[6]{x} \sqrt[3]{y} \right)^1 =$$

$$9. \log \sqrt[4]{x^2} \sqrt[6]{y^5} =$$

$$4. \log \left(\frac{\sqrt{x}}{\sqrt[6]{y}} \right)^2 =$$

$$10. \log \frac{\sqrt[6]{x^2}}{\sqrt[5]{(x+y)^2}} =$$

$$5. \log \sqrt[6]{x^2} \sqrt[5]{y} =$$

$$11. \log \sqrt[4]{x^5} \sqrt[3]{y^3} =$$

$$6. \log \left(\sqrt[4]{x} \sqrt[6]{y} \right)^2 =$$

$$12. \log \sqrt[5]{x^4} \sqrt[5]{y^2} =$$

Expand the logs.

Document No.LEX3007021

$$1. \log \left(\sqrt[6]{(x+y)^2} \sqrt{y^3} \right) =$$

$$7. \log \left(\frac{\sqrt{x}}{\sqrt[3]{y}} \right)^3 =$$

$$2. \log \frac{\sqrt{x^5}}{\sqrt[4]{y}} =$$

$$8. \log \frac{\sqrt[3]{x^2}}{\sqrt[5]{y^3}} =$$

$$3. \log \left(\sqrt[3]{x} \sqrt[6]{y} \right)^2 =$$

$$9. \log \left(\frac{\sqrt{x}}{\sqrt{y}} \right)^3 =$$

$$4. \log \left(\sqrt{x} \sqrt[3]{y} \right)^3 =$$

$$10. \log \sqrt[3]{x^3} \sqrt{y^3} =$$

$$5. \log \frac{\sqrt[3]{x}}{\sqrt{(x+y)^5}} =$$

$$11. \log \left(\sqrt{x} \sqrt[5]{y} \right)^1 =$$

$$6. \log \left(\sqrt[6]{x} \sqrt[6]{y} \right)^3 =$$

$$12. \log \left(\sqrt{x} \sqrt[3]{y} \right)^5 =$$

Expand the logs.

Document No.LEX3007022

1. $\log \frac{\sqrt[3]{x^2}}{\sqrt[4]{(x+y)^3}} =$

7. $\log \frac{\sqrt[3]{x^5}}{\sqrt[5]{y^4}} =$

2. $\log \sqrt[3]{x^2} \sqrt[4]{y^3} =$

8. $\log \frac{\sqrt[6]{x^4}}{\sqrt[3]{y^4}} =$

3. $\log \frac{\sqrt[5]{x^3}}{\sqrt{y}} =$

9. $\log \sqrt[6]{x} \sqrt[4]{y^3} =$

4. $\log \frac{\sqrt[5]{x^2}}{\sqrt{(x+y)^3}} =$

10. $\log \left(\sqrt[5]{(x+y)^3} \sqrt[4]{y^5} \right) =$

5. $\log \left(\sqrt[3]{x} \sqrt{y} \right)^1 =$

11. $\log \sqrt[3]{x} \sqrt[4]{y} =$

6. $\log \sqrt[5]{x^5} \sqrt[4]{y^5} =$

12. $\log \left(\sqrt{x} \sqrt[4]{y} \right)^2 =$

Expand the logs.

Document No.LEX3007023

$$1. \log \left(\sqrt[4]{(x+y)} \sqrt[5]{y^3} \right) =$$

$$7. \log \left(\sqrt{x} \sqrt[6]{y} \right)^2 =$$

$$2. \log \sqrt[4]{x^4} \sqrt[3]{y^2} =$$

$$8. \log \left(\frac{\sqrt{x}}{\sqrt[5]{y}} \right)^4 =$$

$$3. \log \frac{\sqrt{x}}{\sqrt[6]{y}} =$$

$$9. \log \left(\frac{\sqrt{x}}{\sqrt[3]{y}} \right)^2 =$$

$$4. \log \left(\sqrt[5]{x} \sqrt{y} \right)^3 =$$

$$10. \log \left(\sqrt[3]{x} \sqrt{y} \right)^4 =$$

$$5. \log \left(\sqrt[4]{x} \sqrt[5]{y} \right)^1 =$$

$$11. \log \frac{\sqrt{x^3}}{\sqrt[3]{y^4}} =$$

$$6. \log \left(\sqrt[6]{(x+y)} \sqrt[6]{y} \right) =$$

$$12. \log \left(\frac{\sqrt[3]{x}}{\sqrt[6]{y}} \right)^2 =$$

Expand the logs.

Document No.LEX3007024

1. $\log \left(\frac{\sqrt[6]{x}}{\sqrt{y}} \right)^1 =$

7. $\log \left(\frac{\sqrt[3]{x}}{\sqrt[6]{y}} \right)^5 =$

2. $\log \frac{\sqrt[5]{x^5}}{\sqrt[3]{y^2}} =$

8. $\log \left(\frac{\sqrt[4]{x}}{\sqrt[3]{y}} \right)^4 =$

3. $\log \left(\frac{\sqrt[6]{x}}{\sqrt[3]{y}} \right)^1 =$

9. $\log \frac{\sqrt[4]{x^5}}{\sqrt[3]{(x+y)^4}} =$

4. $\log \left(\sqrt[5]{x} \sqrt{y} \right)^5 =$

10. $\log \left(\sqrt{(x+y)^5} \sqrt{y^4} \right) =$

5. $\log \frac{\sqrt[4]{x^5}}{\sqrt[3]{y^2}} =$

11. $\log \frac{\sqrt[4]{x^4}}{\sqrt[3]{y^4}} =$

6. $\log \frac{\sqrt[6]{x}}{\sqrt[4]{y^2}} =$

12. $\log \left(\frac{\sqrt[5]{x}}{\sqrt[4]{y}} \right)^4 =$

Expand the logs.

Document No.LEX3007025

1. $\log (\sqrt{x} \sqrt[3]{y})^5 =$

7. $\log \left(\sqrt[3]{(x+y)^2} \sqrt[6]{y^2} \right) =$

2. $\log \left(\sqrt{(x+y)^2} \sqrt[5]{y^3} \right) =$

8. $\log \frac{\sqrt[6]{x}}{\sqrt{(x+y)^3}} =$

3. $\log \sqrt[3]{x^2} \sqrt[5]{y} =$

9. $\log \left(\sqrt[3]{(x+y)^3} \sqrt[4]{y} \right) =$

4. $\log \left(\sqrt[4]{(x+y)^5} \sqrt[6]{y^3} \right) =$

10. $\log \frac{\sqrt{x}}{\sqrt{y^3}} =$

5. $\log \left(\frac{\sqrt[6]{x}}{\sqrt[5]{y}} \right)^3 =$

11. $\log \sqrt{x} \sqrt{y} =$

6. $\log \left(\sqrt{(x+y)^2} \sqrt{y} \right) =$

12. $\log \left(\sqrt[6]{(x+y)} \sqrt[6]{y^4} \right) =$

Expand the logs.

Document No.LEX3007026

$$1. \log \frac{\sqrt[6]{x^4}}{\sqrt{y^4}} =$$

$$7. \log \frac{\sqrt{x}}{\sqrt[5]{(x+y)^3}} =$$

$$2. \log \left(\frac{\sqrt{x}}{\sqrt[6]{y}} \right)^4 =$$

$$8. \log \frac{\sqrt[6]{x^4}}{\sqrt[4]{(x+y)}} =$$

$$3. \log \sqrt[6]{x^4} \sqrt[4]{y^3} =$$

$$9. \log \left(\frac{\sqrt[3]{x}}{\sqrt{y}} \right)^3 =$$

$$4. \log \left(\sqrt[5]{x} \sqrt[5]{y} \right)^2 =$$

$$10. \log \left(\frac{\sqrt[6]{x}}{\sqrt[6]{y}} \right)^1 =$$

$$5. \log \frac{\sqrt[3]{x^2}}{\sqrt[6]{(x+y)^5}} =$$

$$11. \log \frac{\sqrt[6]{x^3}}{\sqrt[6]{y^2}} =$$

$$6. \log \frac{\sqrt[3]{x^2}}{\sqrt{y}} =$$

$$12. \log \left(\frac{\sqrt[6]{x}}{\sqrt[4]{y}} \right)^2 =$$

Expand the logs.

Document No.LEX3007027

$$1. \log \left(\sqrt{(x+y)^2} \sqrt[5]{y^5} \right) =$$

$$7. \log \sqrt[5]{x^2} \sqrt[6]{y^5} =$$

$$2. \log \left(\sqrt[6]{(x+y)^4} \sqrt[5]{y^5} \right) =$$

$$8. \log \left(\sqrt[5]{(x+y)^3} \sqrt[4]{y^4} \right) =$$

$$3. \log \left(\sqrt[5]{(x+y)^5} \sqrt{y^4} \right) =$$

$$9. \log \left(\sqrt[5]{(x+y)^2} \sqrt[3]{y^2} \right) =$$

$$4. \log \frac{\sqrt[6]{x^5}}{\sqrt[4]{y^5}} =$$

$$10. \log \frac{\sqrt[6]{x^3}}{\sqrt[5]{(x+y)^5}} =$$

$$5. \log \left(\sqrt[6]{x} \sqrt[6]{y} \right)^5 =$$

$$11. \log \left(\sqrt[3]{x} \sqrt[4]{y} \right)^4 =$$

$$6. \log \frac{\sqrt[6]{x}}{\sqrt[6]{y^2}} =$$

$$12. \log \left(\sqrt[4]{(x+y)^2} \sqrt[3]{y} \right) =$$

Expand the logs.

Document No.LEX3007028

1. $\log \frac{\sqrt[3]{x^5}}{\sqrt[3]{y}} =$

7. $\log \frac{\sqrt[3]{x^5}}{\sqrt[5]{y^5}} =$

2. $\log \left(\sqrt[3]{(x+y)^2} \sqrt[3]{y^3} \right) =$

8. $\log \left(\sqrt[5]{(x+y)^2} \sqrt[5]{y} \right) =$

3. $\log \left(\frac{\sqrt[3]{x}}{\sqrt{y}} \right)^4 =$

9. $\log \frac{\sqrt[6]{x^2}}{\sqrt[5]{(x+y)^3}} =$

4. $\log \frac{\sqrt[6]{x^3}}{\sqrt[5]{(x+y)^4}} =$

10. $\log \frac{\sqrt[4]{x}}{\sqrt[5]{(x+y)^5}} =$

5. $\log \left(\frac{\sqrt[4]{x}}{\sqrt[4]{y}} \right)^5 =$

11. $\log \left(\frac{\sqrt[3]{x}}{\sqrt{y}} \right)^4 =$

6. $\log \left(\frac{\sqrt[4]{x}}{\sqrt{y}} \right)^5 =$

12. $\log \left(\sqrt[4]{x} \sqrt[3]{y} \right)^5 =$

Expand the logs.

Document No.LEX3007029

1. $\log \left(\frac{\sqrt[3]{x}}{\sqrt[3]{y}} \right)^3 =$

7. $\log \left(\sqrt{(x+y)^2} \sqrt[3]{y} \right) =$

2. $\log \left(\sqrt[6]{(x+y)} \sqrt{y^2} \right) =$

8. $\log \frac{\sqrt[6]{x^2}}{\sqrt[6]{(x+y)^2}} =$

3. $\log \left(\frac{\sqrt[4]{x}}{\sqrt[4]{y}} \right)^4 =$

9. $\log \left(\sqrt[5]{(x+y)} \sqrt{y} \right) =$

4. $\log \left(\sqrt[3]{(x+y)^3} \sqrt[6]{y^2} \right) =$

10. $\log \left(\frac{\sqrt[3]{x}}{\sqrt{y}} \right)^5 =$

5. $\log \left(\sqrt[6]{x} \sqrt[3]{y} \right)^3 =$

11. $\log \sqrt{x^4} \sqrt[3]{y} =$

6. $\log \left(\sqrt[4]{x} \sqrt[3]{y} \right)^2 =$

12. $\log \frac{\sqrt[4]{x^2}}{\sqrt[3]{(x+y)^5}} =$

Expand the logs.

Document No.LEX3007030

1. $\log \sqrt[3]{x^4} \sqrt[5]{y^2} =$

7. $\log \sqrt[6]{x^4} \sqrt[6]{y^3} =$

2. $\log \left(\sqrt[3]{(x+y)^3} \sqrt[6]{y^4} \right) =$

8. $\log \left(\sqrt[6]{(x+y)^3} \sqrt[4]{y} \right) =$

3. $\log \frac{\sqrt[6]{x^4}}{\sqrt[3]{(x+y)^5}} =$

9. $\log \frac{\sqrt[4]{x}}{\sqrt[6]{y}} =$

4. $\log \left(\frac{\sqrt[3]{x}}{\sqrt[4]{y}} \right)^3 =$

10. $\log \sqrt{x^4} \sqrt[6]{y^3} =$

5. $\log \left(\sqrt[6]{x} \sqrt[6]{y} \right)^3 =$

11. $\log \left(\sqrt[3]{x} \sqrt[6]{y} \right)^3 =$

6. $\log \sqrt{x^4} \sqrt[6]{y^5} =$

12. $\log \frac{\sqrt{x^2}}{\sqrt[3]{(x+y)^5}} =$

Expand the logs.

Document No.LEX3007031

1. $\log \frac{\sqrt[3]{x^5}}{\sqrt[4]{(x+y)^4}} =$

7. $\log \sqrt[5]{x} \sqrt[4]{y^3} =$

2. $\log \frac{\sqrt[5]{x^4}}{\sqrt{(x+y)^5}} =$

8. $\log \left(\sqrt[6]{x} \sqrt[6]{y} \right)^3 =$

3. $\log \sqrt[4]{x^4} \sqrt[4]{y^5} =$

9. $\log \frac{\sqrt[4]{x^3}}{\sqrt[5]{(x+y)^2}} =$

4. $\log \frac{\sqrt[5]{x^5}}{\sqrt[6]{(x+y)^3}} =$

10. $\log \sqrt[4]{x^2} \sqrt[5]{y^5} =$

5. $\log \left(\sqrt[5]{(x+y)} \sqrt[5]{y^2} \right) =$

11. $\log \sqrt[3]{x^3} \sqrt[4]{y^5} =$

6. $\log \left(\frac{\sqrt[4]{x}}{\sqrt[4]{y}} \right)^5 =$

12. $\log \left(\sqrt{(x+y)^5} \sqrt{y^2} \right) =$

Expand the logs.

Document No.LEX3007032

$$1. \log \left(\sqrt[4]{(x+y)} \sqrt[3]{y^4} \right) =$$

$$7. \log \left(\sqrt[6]{x} \sqrt{y} \right)^1 =$$

$$2. \log \left(\frac{\sqrt[4]{x}}{\sqrt[6]{y}} \right)^2 =$$

$$8. \log \left(\sqrt[4]{(x+y)} \sqrt{y^3} \right) =$$

$$3. \log \frac{\sqrt[4]{x^5}}{\sqrt[3]{(x+y)}} =$$

$$9. \log \frac{\sqrt[3]{x^5}}{\sqrt[6]{y^2}} =$$

$$4. \log \left(\sqrt[3]{x} \sqrt[3]{y} \right)^1 =$$

$$10. \log \frac{\sqrt[3]{x^3}}{\sqrt[4]{(x+y)^3}} =$$

$$5. \log \left(\frac{\sqrt[6]{x}}{\sqrt{y}} \right)^3 =$$

$$11. \log \left(\sqrt{x} \sqrt{y} \right)^5 =$$

$$6. \log \left(\sqrt[3]{(x+y)^4} \sqrt[4]{y^5} \right) =$$

$$12. \log \left(\sqrt[5]{(x+y)^5} \sqrt[4]{y^5} \right) =$$

Expand the logs.

Document No.LEX3007033

1. $\log \sqrt[4]{x^4} \sqrt[4]{y} =$

7. $\log \frac{\sqrt[5]{x^3}}{\sqrt[5]{(x+y)^4}} =$

2. $\log \sqrt[4]{x^2} \sqrt[4]{y^5} =$

8. $\log \frac{\sqrt[6]{x^5}}{\sqrt[3]{(x+y)^4}} =$

3. $\log \sqrt[4]{x^5} \sqrt[4]{y^5} =$

9. $\log \frac{\sqrt[6]{x^2}}{\sqrt{(x+y)^3}} =$

4. $\log \frac{\sqrt[4]{x^2}}{\sqrt[4]{(x+y)^3}} =$

10. $\log \sqrt{x} \sqrt[6]{y} =$

5. $\log \left(\sqrt{(x+y)^5} \sqrt[5]{y^5} \right) =$

11. $\log \left(\frac{\sqrt[5]{x}}{\sqrt[6]{y}} \right)^5 =$

6. $\log \frac{\sqrt[3]{x^2}}{\sqrt{(x+y)^4}} =$

12. $\log \left(\frac{\sqrt[4]{x}}{\sqrt[4]{y}} \right)^5 =$

Expand the logs.

Document No.LEX3007034

1. $\log \sqrt[6]{x^5} \sqrt{y^5} =$

7. $\log \sqrt[3]{x^3} \sqrt[4]{y^2} =$

2. $\log \left(\frac{\sqrt[6]{x}}{\sqrt[3]{y}} \right)^2 =$

8. $\log \left(\frac{\sqrt[5]{x}}{\sqrt[3]{y}} \right)^4 =$

3. $\log \sqrt[4]{x^4} \sqrt[4]{y^3} =$

9. $\log \left(\sqrt[3]{x} \sqrt[4]{y} \right)^5 =$

4. $\log \left(\sqrt[5]{x} \sqrt{y} \right)^2 =$

10. $\log \frac{\sqrt[4]{x^3}}{\sqrt[5]{(x+y)^4}} =$

5. $\log \frac{\sqrt[3]{x^5}}{\sqrt[4]{(x+y)^2}} =$

11. $\log \frac{\sqrt{x^3}}{\sqrt[6]{(x+y)^3}} =$

6. $\log \frac{\sqrt[5]{x^3}}{\sqrt[4]{y^3}} =$

12. $\log \left(\frac{\sqrt[3]{x}}{\sqrt{y}} \right)^2 =$

Expand the logs.

Document No.LEX3007035

1. $\log \left(\frac{\sqrt[6]{x}}{\sqrt[4]{y}} \right)^5 =$

7. $\log \left(\sqrt[4]{x} \sqrt[4]{y} \right)^3 =$

2. $\log \left(\frac{\sqrt{x}}{\sqrt[3]{y}} \right)^5 =$

8. $\log \frac{\sqrt[5]{x^5}}{\sqrt[6]{(x+y)^2}} =$

3. $\log \left(\sqrt[5]{x} \sqrt[4]{y} \right)^4 =$

9. $\log \left(\frac{\sqrt[4]{x}}{\sqrt[4]{y}} \right)^1 =$

4. $\log \frac{\sqrt{x^4}}{\sqrt[5]{(x+y)^2}} =$

10. $\log \left(\sqrt{x} \sqrt{y} \right)^3 =$

5. $\log \left(\sqrt[5]{x} \sqrt[5]{y} \right)^1 =$

11. $\log \frac{\sqrt[5]{x}}{\sqrt[4]{(x+y)^3}} =$

6. $\log \sqrt[3]{x^3} \sqrt[6]{y^4} =$

12. $\log \sqrt{x^2} \sqrt{y^2} =$

Expand the logs.

Document No.LEX3007036

$$1. \log \left(\sqrt[6]{(x+y)^4} \sqrt[3]{y^3} \right) =$$

$$7. \log \left(\sqrt[4]{(x+y)^5} \sqrt[5]{y} \right) =$$

$$2. \log \left(\sqrt[4]{(x+y)^4} \sqrt[6]{y^2} \right) =$$

$$8. \log \frac{\sqrt{x}}{\sqrt[4]{y^2}} =$$

$$3. \log \frac{\sqrt[3]{x^2}}{\sqrt{y^4}} =$$

$$9. \log \left(\sqrt[6]{x} \sqrt{y} \right)^2 =$$

$$4. \log \left(\sqrt[6]{(x+y)^4} \sqrt[5]{y^3} \right) =$$

$$10. \log \frac{\sqrt{x^3}}{\sqrt[6]{(x+y)}} =$$

$$5. \log \left(\sqrt[5]{x} \sqrt[5]{y} \right)^2 =$$

$$11. \log \left(\sqrt[3]{(x+y)^5} \sqrt[4]{y^3} \right) =$$

$$6. \log \left(\frac{\sqrt{x}}{\sqrt[4]{y}} \right)^3 =$$

$$12. \log \left(\frac{\sqrt[6]{x}}{\sqrt[3]{y}} \right)^5 =$$

Expand the logs.

Document No.LEX3007037

1. $\log \sqrt{x^4} \sqrt[6]{y^4} =$

7. $\log \frac{\sqrt{x^3}}{\sqrt[5]{y^4}} =$

2. $\log \frac{\sqrt[3]{x^4}}{\sqrt[4]{y^2}} =$

8. $\log \frac{\sqrt[6]{x^5}}{\sqrt[5]{y^2}} =$

3. $\log \left(\sqrt[6]{(x+y)^5} \sqrt[5]{y^4} \right) =$

9. $\log \sqrt{x^2} \sqrt{y^2} =$

4. $\log \left(\frac{\sqrt{x}}{\sqrt[5]{y}} \right)^1 =$

10. $\log \left(\sqrt[3]{x} \sqrt[5]{y} \right)^2 =$

5. $\log \left(\frac{\sqrt[6]{x}}{\sqrt[3]{y}} \right)^2 =$

11. $\log \left(\sqrt[5]{(x+y)^3} \sqrt{y^4} \right) =$

6. $\log \sqrt{x^3} \sqrt[4]{y} =$

12. $\log \frac{\sqrt[5]{x^4}}{\sqrt[4]{y^2}} =$

Expand the logs.

Document No.LEX3007038

$$1. \log \left(\sqrt[5]{x} \sqrt[5]{y} \right)^1 =$$

$$7. \log \sqrt[5]{x^4} \sqrt[3]{y^3} =$$

$$2. \log \left(\sqrt[6]{(x+y)^2} \sqrt[6]{y} \right) =$$

$$8. \log \sqrt[5]{x} \sqrt[5]{y^2} =$$

$$3. \log \frac{\sqrt[3]{x^2}}{\sqrt{(x+y)^4}} =$$

$$9. \log \sqrt[6]{x} \sqrt[5]{y} =$$

$$4. \log \frac{\sqrt[5]{x^2}}{\sqrt{(x+y)^3}} =$$

$$10. \log \frac{\sqrt[5]{x^2}}{\sqrt[3]{(x+y)^5}} =$$

$$5. \log \frac{\sqrt[3]{x^2}}{\sqrt{y}} =$$

$$11. \log \frac{\sqrt{x^3}}{\sqrt{y^2}} =$$

$$6. \log \left(\sqrt[5]{x} \sqrt[6]{y} \right)^3 =$$

$$12. \log \left(\sqrt[5]{x} \sqrt[5]{y} \right)^5 =$$

Expand the logs.

Document No.LEX3007039

$$1. \log \left(\sqrt[6]{x} \sqrt[4]{y} \right)^3 =$$

$$7. \log \frac{\sqrt{x^3}}{\sqrt[6]{(x+y)^2}} =$$

$$2. \log \frac{\sqrt[5]{x^5}}{\sqrt{(x+y)^4}} =$$

$$8. \log \left(\sqrt[5]{x} \sqrt[4]{y} \right)^3 =$$

$$3. \log \frac{\sqrt[6]{x^4}}{\sqrt[4]{y}} =$$

$$9. \log \left(\frac{\sqrt{x}}{\sqrt[3]{y}} \right)^1 =$$

$$4. \log \left(\sqrt[3]{x} \sqrt[4]{y} \right)^2 =$$

$$10. \log \sqrt{x^3} \sqrt[6]{y^3} =$$

$$5. \log \left(\frac{\sqrt[3]{x}}{\sqrt[6]{y}} \right)^5 =$$

$$11. \log \sqrt[4]{x^2} \sqrt[3]{y} =$$

$$6. \log \left(\frac{\sqrt[5]{x}}{\sqrt[3]{y}} \right)^2 =$$

$$12. \log \left(\sqrt[4]{(x+y)^4} \sqrt[6]{y^3} \right) =$$

Expand the logs.

Document No.LEX3007040

1. $\log \sqrt[6]{x^2} \sqrt{y^2} =$

7. $\log \left(\frac{\sqrt[3]{x}}{\sqrt[4]{y}} \right)^3 =$

2. $\log \left(\frac{\sqrt[4]{x}}{\sqrt[6]{y}} \right)^2 =$

8. $\log \left(\frac{\sqrt[3]{x}}{\sqrt[5]{y}} \right)^2 =$

3. $\log \left(\sqrt[5]{x} \sqrt[3]{y} \right)^3 =$

9. $\log \left(\sqrt[5]{(x+y)^5} \sqrt{y^5} \right) =$

4. $\log \frac{\sqrt[6]{x^4}}{\sqrt[6]{y^4}} =$

10. $\log \left(\frac{\sqrt[4]{x}}{\sqrt[4]{y}} \right)^2 =$

5. $\log \frac{\sqrt{x^2}}{\sqrt[5]{y}} =$

11. $\log \sqrt[4]{x^4} \sqrt[3]{y^4} =$

6. $\log \left(\sqrt{x} \sqrt{y} \right)^4 =$

12. $\log \frac{\sqrt[4]{x^3}}{\sqrt[4]{y^2}} =$

Expand the logs.

Document No.LEX3007041

1. $\log \sqrt[5]{x} \sqrt[6]{y} =$

7. $\log \sqrt[6]{x^2} \sqrt[6]{y^3} =$

2. $\log \left(\sqrt[6]{x} \sqrt[6]{y} \right)^2 =$

8. $\log \frac{\sqrt[3]{x^5}}{\sqrt[5]{y^5}} =$

3. $\log \left(\frac{\sqrt[4]{x}}{\sqrt[4]{y}} \right)^2 =$

9. $\log \frac{\sqrt[5]{x^2}}{\sqrt[6]{y^3}} =$

4. $\log \left(\frac{\sqrt{x}}{\sqrt[5]{y}} \right)^2 =$

10. $\log \frac{\sqrt{x^2}}{\sqrt[6]{y^5}} =$

5. $\log \frac{\sqrt[6]{x^2}}{\sqrt[5]{y^4}} =$

11. $\log \frac{\sqrt[5]{x^2}}{\sqrt[3]{(x+y)^4}} =$

6. $\log \left(\frac{\sqrt[3]{x}}{\sqrt[6]{y}} \right)^2 =$

12. $\log \sqrt[4]{x^3} \sqrt{y^3} =$

Expand the logs.

Document No.LEX3007042

1. $\log \frac{\sqrt{x}}{\sqrt[3]{y^4}} =$

7. $\log \left(\sqrt[6]{x} \sqrt{y} \right)^3 =$

2. $\log \left(\frac{\sqrt[3]{x}}{\sqrt{y}} \right)^2 =$

8. $\log \left(\sqrt[4]{(x+y)^5} \sqrt{y^2} \right) =$

3. $\log \left(\frac{\sqrt[5]{x}}{\sqrt[4]{y}} \right)^5 =$

9. $\log \frac{\sqrt[3]{x^3}}{\sqrt{y}} =$

4. $\log \frac{\sqrt[6]{x^3}}{\sqrt{(x+y)^5}} =$

10. $\log \frac{\sqrt[6]{x^5}}{\sqrt[3]{y^2}} =$

5. $\log \left(\sqrt{(x+y)^4} \sqrt[5]{y} \right) =$

11. $\log \frac{\sqrt{x}}{\sqrt[4]{y^4}} =$

6. $\log \sqrt[6]{x^5} \sqrt[5]{y^4} =$

12. $\log \left(\sqrt{(x+y)} \sqrt[4]{y^2} \right) =$

Expand the logs.

Document No.LEX3007043

$$1. \log \frac{\sqrt{x^4}}{\sqrt[4]{y^4}} =$$

$$7. \log \left(\sqrt[6]{(x+y)^3} \sqrt[4]{y} \right) =$$

$$2. \log \frac{\sqrt[5]{x^5}}{\sqrt[3]{(x+y)}} =$$

$$8. \log \frac{\sqrt[5]{x^5}}{\sqrt[4]{(x+y)^3}} =$$

$$3. \log \left(\sqrt[3]{x} \sqrt[6]{y} \right)^4 =$$

$$9. \log \frac{\sqrt[6]{x}}{\sqrt[6]{y}} =$$

$$4. \log \frac{\sqrt[3]{x^3}}{\sqrt{y^4}} =$$

$$10. \log \sqrt[6]{x^4} \sqrt[4]{y} =$$

$$5. \log \left(\frac{\sqrt[5]{x}}{\sqrt[3]{y}} \right)^2 =$$

$$11. \log \left(\frac{\sqrt[5]{x}}{\sqrt[5]{y}} \right)^4 =$$

$$6. \log \frac{\sqrt{x^5}}{\sqrt[6]{(x+y)}} =$$

$$12. \log \frac{\sqrt[5]{x}}{\sqrt[4]{y^3}} =$$

Expand the logs.

Document No.LEX3007044

1. $\log \sqrt[3]{x^3} \sqrt[5]{y^3} =$

7. $\log \left(\frac{\sqrt[3]{x}}{\sqrt[5]{y}} \right)^1 =$

2. $\log \frac{\sqrt{x^5}}{\sqrt{y^2}} =$

8. $\log \sqrt[6]{x^2} \sqrt[4]{y^3} =$

3. $\log \left(\sqrt{x} \sqrt[5]{y} \right)^2 =$

9. $\log \sqrt[3]{x^3} \sqrt[4]{y^3} =$

4. $\log \frac{\sqrt[5]{x^5}}{\sqrt[5]{(x+y)^4}} =$

10. $\log \frac{\sqrt[4]{x}}{\sqrt{(x+y)^4}} =$

5. $\log \frac{\sqrt[4]{x^3}}{\sqrt{y}} =$

11. $\log \left(\sqrt[5]{(x+y)^5} \sqrt{y^3} \right) =$

6. $\log \left(\sqrt[3]{(x+y)^2} \sqrt[6]{y^4} \right) =$

12. $\log \left(\frac{\sqrt{x}}{\sqrt[5]{y}} \right)^2 =$

Expand the logs.

Document No.LEX3007045

1. $\log \sqrt[4]{x} \sqrt[4]{y^4} =$

7. $\log \left(\frac{\sqrt[5]{x}}{\sqrt[5]{y}} \right)^5 =$

2. $\log \frac{\sqrt[3]{x^4}}{\sqrt[5]{y^3}} =$

8. $\log \sqrt[6]{x^5} \sqrt[5]{y^3} =$

3. $\log \frac{\sqrt{x^4}}{\sqrt[5]{(x+y)^4}} =$

9. $\log \frac{\sqrt[3]{x^3}}{\sqrt[3]{y}} =$

4. $\log \left(\sqrt[4]{(x+y)^5} \sqrt[3]{y^2} \right) =$

10. $\log \frac{\sqrt[6]{x^5}}{\sqrt[6]{y^5}} =$

5. $\log \left(\frac{\sqrt[5]{x}}{\sqrt[6]{y}} \right)^5 =$

11. $\log \sqrt[3]{x^3} \sqrt[5]{y^3} =$

6. $\log \left(\sqrt[3]{x} \sqrt[3]{y} \right)^3 =$

12. $\log \frac{\sqrt{x^3}}{\sqrt[3]{y^3}} =$

Expand the logs.

Document No.LEX3007046

1. $\log \frac{\sqrt{x^4}}{\sqrt[5]{y}} =$

7. $\log \left(\sqrt[3]{x} \sqrt[3]{y} \right)^5 =$

2. $\log \left(\sqrt[6]{(x+y)} \sqrt[4]{y^4} \right) =$

8. $\log \left(\sqrt[5]{(x+y)} \sqrt[3]{y^2} \right) =$

3. $\log \frac{\sqrt{x^3}}{\sqrt[4]{(x+y)^3}} =$

9. $\log \sqrt[4]{x^4} \sqrt[4]{y^5} =$

4. $\log \frac{\sqrt[6]{x^5}}{\sqrt[3]{(x+y)^4}} =$

10. $\log \left(\sqrt[6]{x} \sqrt[5]{y} \right)^3 =$

5. $\log \frac{\sqrt[3]{x^4}}{\sqrt[4]{y^5}} =$

11. $\log \frac{\sqrt[4]{x}}{\sqrt[6]{(x+y)^5}} =$

6. $\log \frac{\sqrt[3]{x}}{\sqrt[5]{y^5}} =$

12. $\log \left(\frac{\sqrt[3]{x}}{\sqrt[4]{y}} \right)^3 =$

Expand the logs.

Document No.LEX3007047

1. $\log \frac{\sqrt[3]{x^5}}{\sqrt{y^4}} =$

7. $\log \left(\frac{\sqrt[5]{x}}{\sqrt[4]{y}} \right)^3 =$

2. $\log \left(\sqrt[6]{(x+y)^2} \sqrt[4]{y^4} \right) =$

8. $\log \left(\frac{\sqrt[6]{x}}{\sqrt[4]{y}} \right)^5 =$

3. $\log \left(\sqrt[5]{(x+y)^4} \sqrt{y^2} \right) =$

9. $\log \left(\sqrt[5]{(x+y)^2} \sqrt[3]{y^3} \right) =$

4. $\log \left(\frac{\sqrt[4]{x}}{\sqrt[3]{y}} \right)^5 =$

10. $\log \left(\sqrt{(x+y)} \sqrt[6]{y^3} \right) =$

5. $\log \left(\sqrt[3]{x} \sqrt[5]{y} \right)^2 =$

11. $\log \frac{\sqrt[4]{x^2}}{\sqrt[5]{y^3}} =$

6. $\log \frac{\sqrt[3]{x^5}}{\sqrt[3]{(x+y)^2}} =$

12. $\log \frac{\sqrt[3]{x^5}}{\sqrt[5]{y^3}} =$

Expand the logs.

Document No.LEX3007048

1. $\log \left(\frac{\sqrt{x}}{\sqrt[4]{y}} \right)^5 =$

7. $\log \sqrt[4]{x^5} \sqrt[4]{y^5} =$

2. $\log \frac{\sqrt[4]{x^3}}{\sqrt[3]{y}} =$

8. $\log \left(\frac{\sqrt[4]{x}}{\sqrt[4]{y}} \right)^5 =$

3. $\log \frac{\sqrt[6]{x^3}}{\sqrt[6]{(x+y)^4}} =$

9. $\log \left(\sqrt[3]{x} \sqrt[6]{y} \right)^1 =$

4. $\log \sqrt[5]{x^5} \sqrt[3]{y^3} =$

10. $\log \left(\frac{\sqrt[4]{x}}{\sqrt{y}} \right)^4 =$

5. $\log \left(\sqrt[6]{(x+y)^4} \sqrt[4]{y} \right) =$

11. $\log \frac{\sqrt[6]{x^5}}{\sqrt[4]{(x+y)^2}} =$

6. $\log \frac{\sqrt{x}}{\sqrt[3]{(x+y)^3}} =$

12. $\log \sqrt{x} \sqrt[4]{y^5} =$

Expand the logs.

Document No.LEX3007049

1. $\log \frac{\sqrt[3]{x}}{\sqrt[6]{(x+y)^5}} =$

7. $\log \frac{\sqrt[3]{x^3}}{\sqrt[4]{y^2}} =$

2. $\log \left(\frac{\sqrt[3]{x}}{\sqrt[4]{y}} \right)^2 =$

8. $\log \left(\frac{\sqrt{x}}{\sqrt[4]{y}} \right)^2 =$

3. $\log \sqrt[6]{x^3} \sqrt[6]{y^4} =$

9. $\log \left(\frac{\sqrt[3]{x}}{\sqrt{y}} \right)^4 =$

4. $\log \sqrt{x^2} \sqrt[4]{y^2} =$

10. $\log \left(\frac{\sqrt[5]{x}}{\sqrt[4]{y}} \right)^5 =$

5. $\log \left(\sqrt{x} \sqrt[4]{y} \right)^4 =$

11. $\log \left(\sqrt{x} \sqrt{y} \right)^4 =$

6. $\log \frac{\sqrt[6]{x^2}}{\sqrt[5]{y^4}} =$

12. $\log \left(\sqrt[6]{(x+y)^3} \sqrt{y^5} \right) =$

Expand the logs.

Document No.LEX3007050

$$1. \log \left(\sqrt[3]{(x+y)^5} \sqrt{y} \right) =$$

$$7. \log \left(\sqrt[4]{(x+y)^5} \sqrt[3]{y^5} \right) =$$

$$2. \log \left(\frac{\sqrt[5]{x}}{\sqrt{y}} \right)^3 =$$

$$8. \log \frac{\sqrt[4]{x^5}}{\sqrt[4]{y^4}} =$$

$$3. \log \frac{\sqrt{x^3}}{\sqrt[5]{(x+y)^4}} =$$

$$9. \log \frac{\sqrt{x}}{\sqrt[5]{(x+y)^4}} =$$

$$4. \log \frac{\sqrt[4]{x}}{\sqrt{(x+y)^5}} =$$

$$10. \log \frac{\sqrt[5]{x^5}}{\sqrt[4]{(x+y)^3}} =$$

$$5. \log \left(\sqrt[5]{x} \sqrt{y} \right)^1 =$$

$$11. \log \sqrt[3]{x^5} \sqrt[5]{y^2} =$$

$$6. \log \frac{\sqrt[4]{x^3}}{\sqrt[3]{y}} =$$

$$12. \log \frac{\sqrt[6]{x^5}}{\sqrt[3]{(x+y)^2}} =$$

Expand the logs.

Document No.LEX3007051

1. $\log \sqrt[6]{x^4 y^4} =$

7. $\log \left(\sqrt[4]{(x+y)^4} \sqrt[5]{y^3} \right) =$

2. $\log \left(\frac{\sqrt[5]{x}}{\sqrt[5]{y}} \right)^1 =$

8. $\log \sqrt[5]{x} \sqrt[6]{y} =$

3. $\log \left(\sqrt{x} \sqrt[3]{y} \right)^1 =$

9. $\log \frac{\sqrt[4]{x^3}}{\sqrt[6]{y^2}} =$

4. $\log \left(\frac{\sqrt[5]{x}}{\sqrt[5]{y}} \right)^3 =$

10. $\log \left(\frac{\sqrt[4]{x}}{\sqrt[3]{y}} \right)^3 =$

5. $\log \left(\sqrt[5]{x} \sqrt{y} \right)^1 =$

11. $\log \frac{\sqrt{x^2}}{\sqrt[3]{y^2}} =$

6. $\log \left(\sqrt[6]{(x+y)} \sqrt[5]{y^4} \right) =$

12. $\log \left(\sqrt[3]{x} \sqrt[3]{y} \right)^2 =$

Expand the logs.

Document No.LEX3007052

1. $\log \left(\frac{\sqrt{x}}{\sqrt[6]{y}} \right)^3 =$

7. $\log \left(\frac{\sqrt[4]{x}}{\sqrt[4]{y}} \right)^2 =$

2. $\log \left(\sqrt[4]{(x+y)^5} \sqrt[5]{y^2} \right) =$

8. $\log \frac{\sqrt[4]{x^3}}{\sqrt[4]{(x+y)}} =$

3. $\log \sqrt[3]{x^3} \sqrt[6]{y^5} =$

9. $\log \left(\frac{\sqrt[5]{x}}{\sqrt[3]{y}} \right)^5 =$

4. $\log \frac{\sqrt{x^4}}{\sqrt[5]{y^2}} =$

10. $\log \sqrt[5]{x^4} \sqrt{y^2} =$

5. $\log \left(\frac{\sqrt[3]{x}}{\sqrt[3]{y}} \right)^3 =$

11. $\log \frac{\sqrt[5]{x^3}}{\sqrt[6]{y}} =$

6. $\log \left(\sqrt[6]{x} \sqrt{y} \right)^2 =$

12. $\log \left(\sqrt[3]{x} \sqrt[3]{y} \right)^1 =$

Expand the logs.

Document No.LEX3007053

1. $\log \sqrt[3]{x}\sqrt{y^2} =$

7. $\log \left(\sqrt[4]{x}\sqrt[5]{y} \right)^4 =$

2. $\log \left(\sqrt[5]{(x+y)}\sqrt[3]{y^2} \right) =$

8. $\log \left(\frac{\sqrt[5]{x}}{\sqrt[6]{y}} \right)^2 =$

3. $\log \left(\sqrt[5]{x}\sqrt[4]{y} \right)^1 =$

9. $\log \left(\frac{\sqrt{x}}{\sqrt[4]{y}} \right)^2 =$

4. $\log \left(\frac{\sqrt[4]{x}}{\sqrt{y}} \right)^1 =$

10. $\log \left(\sqrt{x}\sqrt[6]{y} \right)^1 =$

5. $\log \left(\frac{\sqrt{x}}{\sqrt[5]{y}} \right)^3 =$

11. $\log \frac{\sqrt{x}}{\sqrt[4]{(x+y)^3}} =$

6. $\log \left(\sqrt[6]{x}\sqrt{y} \right)^3 =$

12. $\log \sqrt{x^5}\sqrt{y^3} =$

Expand the logs.

Document No.LEX3007054

$$1. \log \left(\sqrt[5]{(x+y)} \sqrt{y^4} \right) =$$

$$7. \log \left(\sqrt[4]{(x+y)^2} \sqrt{y^2} \right) =$$

$$2. \log \left(\frac{\sqrt[3]{x}}{\sqrt[3]{y}} \right)^4 =$$

$$8. \log \sqrt[5]{x^2} \sqrt{y^2} =$$

$$3. \log \left(\sqrt[6]{x} \sqrt[4]{y} \right)^4 =$$

$$9. \log \sqrt[5]{x} \sqrt[3]{y^4} =$$

$$4. \log \left(\sqrt[5]{x} \sqrt{y} \right)^1 =$$

$$10. \log \left(\sqrt[4]{(x+y)^3} \sqrt[5]{y} \right) =$$

$$5. \log \frac{\sqrt{x^3}}{\sqrt{(x+y)^5}} =$$

$$11. \log \frac{\sqrt[6]{x^2}}{\sqrt{(x+y)^3}} =$$

$$6. \log \left(\sqrt[4]{x} \sqrt[6]{y} \right)^1 =$$

$$12. \log \left(\sqrt[5]{x} \sqrt[4]{y} \right)^4 =$$

Expand the logs.

Document No.LEX3007055

$$1. \log \left(\frac{\sqrt{x}}{\sqrt[3]{y}} \right)^4 =$$

$$7. \log \left(\sqrt[6]{x} \sqrt[6]{y} \right)^1 =$$

$$2. \log \left(\frac{\sqrt[3]{x}}{\sqrt[3]{y}} \right)^5 =$$

$$8. \log \left(\sqrt[4]{x} \sqrt[3]{y} \right)^2 =$$

$$3. \log \left(\sqrt[4]{x} \sqrt[3]{y} \right)^3 =$$

$$9. \log \sqrt{x^2} \sqrt[3]{y^3} =$$

$$4. \log \left(\sqrt[3]{(x+y)^3} \sqrt[4]{y} \right) =$$

$$10. \log \left(\frac{\sqrt[4]{x}}{\sqrt{y}} \right)^3 =$$

$$5. \log \left(\frac{\sqrt{x}}{\sqrt[5]{y}} \right)^2 =$$

$$11. \log \left(\sqrt{x} \sqrt[5]{y} \right)^1 =$$

$$6. \log \frac{\sqrt[5]{x^4}}{\sqrt[3]{y^2}} =$$

$$12. \log \frac{\sqrt[6]{x^2}}{\sqrt[4]{(x+y)}} =$$

Expand the logs.

Document No.LEX3007056

$$1. \log \frac{\sqrt[5]{x^2}}{\sqrt[4]{(x+y)^4}} =$$

$$7. \log \left(\sqrt{(x+y)} \sqrt[3]{y^2} \right) =$$

$$2. \log \sqrt[5]{x^3} \sqrt[6]{y^5} =$$

$$8. \log \frac{\sqrt[6]{x^3}}{\sqrt[3]{(x+y)^4}} =$$

$$3. \log \frac{\sqrt{x^3}}{\sqrt[6]{(x+y)^4}} =$$

$$9. \log \frac{\sqrt[5]{x^4}}{\sqrt[6]{y^5}} =$$

$$4. \log \frac{\sqrt[5]{x^5}}{\sqrt{(x+y)^3}} =$$

$$10. \log \left(\sqrt[4]{(x+y)^3} \sqrt[3]{y^3} \right) =$$

$$5. \log \sqrt[3]{x} \sqrt[3]{y^2} =$$

$$11. \log \left(\sqrt[4]{(x+y)} \sqrt[5]{y^3} \right) =$$

$$6. \log \frac{\sqrt[4]{x^5}}{\sqrt[4]{y^4}} =$$

$$12. \log \left(\sqrt{x} \sqrt[5]{y} \right)^2 =$$

Expand the logs.

Document No.LEX3007057

$$1. \log \left(\frac{\sqrt{x}}{\sqrt[4]{y}} \right)^3 =$$

$$7. \log \frac{\sqrt[4]{x^4}}{\sqrt{y^2}} =$$

$$2. \log \left(\frac{\sqrt[4]{x}}{\sqrt[6]{y}} \right)^4 =$$

$$8. \log \frac{\sqrt[6]{x^5}}{\sqrt[6]{y^4}} =$$

$$3. \log \sqrt[5]{x^5} \sqrt[3]{y^5} =$$

$$9. \log \frac{\sqrt[3]{x}}{\sqrt[3]{y}} =$$

$$4. \log \left(\sqrt{x} \sqrt{y} \right)^4 =$$

$$10. \log \left(\sqrt[6]{(x+y)} \sqrt[6]{y^5} \right) =$$

$$5. \log \left(\sqrt[4]{x} \sqrt[4]{y} \right)^4 =$$

$$11. \log \sqrt[6]{x^4} \sqrt[3]{y^3} =$$

$$6. \log \left(\sqrt[6]{x} \sqrt[3]{y} \right)^1 =$$

$$12. \log \frac{\sqrt[5]{x^3}}{\sqrt[5]{(x+y)^2}} =$$

Expand the logs.

Document No.LEX3007058

$$1. \log \frac{\sqrt[5]{x^5}}{\sqrt{y^3}} =$$

$$7. \log \frac{\sqrt[3]{x^4}}{\sqrt[6]{(x+y)^4}} =$$

$$2. \log \left(\sqrt[5]{(x+y)^4} \sqrt{y^2} \right) =$$

$$8. \log \left(\sqrt{x} \sqrt[4]{y} \right)^4 =$$

$$3. \log \frac{\sqrt{x^2}}{\sqrt[6]{(x+y)}} =$$

$$9. \log \frac{\sqrt{x^4}}{\sqrt[3]{y^4}} =$$

$$4. \log \frac{\sqrt[5]{x^3}}{\sqrt[3]{(x+y)^5}} =$$

$$10. \log \left(\sqrt{(x+y)} \sqrt[3]{y^3} \right) =$$

$$5. \log \left(\frac{\sqrt[3]{x}}{\sqrt[4]{y}} \right)^4 =$$

$$11. \log \left(\sqrt[6]{(x+y)^3} \sqrt[5]{y^5} \right) =$$

$$6. \log \frac{\sqrt{x^2}}{\sqrt[6]{y^2}} =$$

$$12. \log \sqrt[3]{x^4} \sqrt[3]{y^4} =$$

Expand the logs.

Document No.LEX3007059

1. $\log \left(\sqrt[4]{x} \sqrt{y} \right)^2 =$

7. $\log \frac{\sqrt[3]{x}}{\sqrt[6]{y^2}} =$

2. $\log \sqrt[4]{x^5} \sqrt{y^2} =$

8. $\log \frac{\sqrt[6]{x^3}}{\sqrt[4]{y^4}} =$

3. $\log \left(\sqrt[3]{(x+y)^5} \sqrt[6]{y^3} \right) =$

9. $\log \sqrt[4]{x^4} \sqrt[3]{y} =$

4. $\log \frac{\sqrt[4]{x^4}}{\sqrt[6]{(x+y)^4}} =$

10. $\log \left(\frac{\sqrt{x}}{\sqrt[3]{y}} \right)^1 =$

5. $\log \frac{\sqrt[6]{x^5}}{\sqrt[5]{y^2}} =$

11. $\log \left(\frac{\sqrt{x}}{\sqrt{y}} \right)^1 =$

6. $\log \frac{\sqrt{x}}{\sqrt{y^4}} =$

12. $\log \frac{\sqrt[3]{x^2}}{\sqrt[3]{y^5}} =$

Expand the logs.

Document No.LEX3007060

1. $\log \frac{\sqrt[4]{x^4}}{\sqrt[5]{y^4}} =$

7. $\log \sqrt[4]{x} \sqrt{y} =$

2. $\log \left(\sqrt[3]{x} \sqrt[3]{y} \right)^4 =$

8. $\log \left(\sqrt[6]{(x+y)^4} \sqrt[4]{y^2} \right) =$

3. $\log \left(\sqrt[6]{x} \sqrt[3]{y} \right)^4 =$

9. $\log \frac{\sqrt[3]{x^5}}{\sqrt[5]{y}} =$

4. $\log \sqrt[6]{x} \sqrt[6]{y^4} =$

10. $\log \frac{\sqrt[5]{x^5}}{\sqrt[5]{y}} =$

5. $\log \left(\sqrt[6]{x} \sqrt[3]{y} \right)^5 =$

11. $\log \frac{\sqrt[6]{x^5}}{\sqrt[5]{(x+y)^4}} =$

6. $\log \sqrt{x^4} \sqrt[5]{y^3} =$

12. $\log \frac{\sqrt{x}}{\sqrt[5]{(x+y)}} =$

Expand the logs.

Document No.LEX3007061

$$1. \log \left(\sqrt[6]{(x+y)^2} \sqrt{y^2} \right) =$$

$$7. \log \left(\sqrt[5]{(x+y)^4} \sqrt{y^4} \right) =$$

$$2. \log \sqrt[5]{x^4} \sqrt[6]{y^2} =$$

$$8. \log \left(\sqrt{x} \sqrt[5]{y} \right)^5 =$$

$$3. \log \left(\sqrt{x} \sqrt[3]{y} \right)^5 =$$

$$9. \log \sqrt[4]{x^4} \sqrt[3]{y} =$$

$$4. \log \left(\sqrt[4]{(x+y)^5} \sqrt[6]{y^4} \right) =$$

$$10. \log \left(\sqrt[4]{(x+y)^2} \sqrt{y} \right) =$$

$$5. \log \frac{\sqrt[4]{x^3}}{\sqrt{y^5}} =$$

$$11. \log \frac{\sqrt{x}}{\sqrt[5]{(x+y)^5}} =$$

$$6. \log \left(\sqrt[4]{(x+y)} \sqrt[3]{y^2} \right) =$$

$$12. \log \frac{\sqrt[3]{x}}{\sqrt{y}} =$$

Expand the logs.

Document No.LEX3007062

1. $\log \left(\frac{\sqrt[3]{x}}{\sqrt[6]{y}} \right)^3 =$

7. $\log \sqrt[3]{x} \sqrt[5]{y} =$

2. $\log \frac{\sqrt[3]{x^4}}{\sqrt[6]{y^5}} =$

8. $\log \frac{\sqrt[4]{x}}{\sqrt[6]{y^5}} =$

3. $\log \sqrt[5]{x^2} \sqrt[3]{y} =$

9. $\log \frac{\sqrt[4]{x^5}}{\sqrt{y}} =$

4. $\log \sqrt{x^5} \sqrt[5]{y^4} =$

10. $\log \left(\sqrt[5]{x} \sqrt[3]{y} \right)^3 =$

5. $\log \sqrt[4]{x^4} \sqrt[5]{y^3} =$

11. $\log \frac{\sqrt[5]{x^3}}{\sqrt[3]{y^2}} =$

6. $\log \sqrt{x^4} \sqrt[6]{y^2} =$

12. $\log \frac{\sqrt[3]{x^2}}{\sqrt[4]{y^5}} =$

Expand the logs.

Document No.LEX3007063

1. $\log \left(\frac{\sqrt[4]{x}}{\sqrt[3]{y}} \right)^4 =$

7. $\log \frac{\sqrt[6]{x^5}}{\sqrt[6]{y^5}} =$

2. $\log \left(\frac{\sqrt[6]{x}}{\sqrt[6]{y}} \right)^4 =$

8. $\log \frac{\sqrt[5]{x^2}}{\sqrt{y^3}} =$

3. $\log \frac{\sqrt[3]{x^3}}{\sqrt[3]{(x+y)^5}} =$

9. $\log \sqrt[5]{x^4} \sqrt[3]{y^4} =$

4. $\log \sqrt[5]{x^2} \sqrt[5]{y^2} =$

10. $\log \frac{\sqrt[3]{x}}{\sqrt[5]{y^5}} =$

5. $\log \left(\sqrt[6]{(x+y)^5} \sqrt[4]{y^5} \right) =$

11. $\log \left(\frac{\sqrt[4]{x}}{\sqrt[5]{y}} \right)^3 =$

6. $\log \left(\sqrt[5]{x} \sqrt{y} \right)^5 =$

12. $\log \sqrt[4]{x^4} \sqrt[4]{y^3} =$

Expand the logs.

Document No.LEX3007064

1. $\log \left(\frac{\sqrt[5]{x}}{\sqrt[3]{y}} \right)^1 =$

7. $\log \left(\sqrt[6]{(x+y)^4} \sqrt[5]{y^2} \right) =$

2. $\log \left(\sqrt[4]{(x+y)^3} \sqrt[6]{y^3} \right) =$

8. $\log \left(\frac{\sqrt{x}}{\sqrt[3]{y}} \right)^4 =$

3. $\log \frac{\sqrt[4]{x}}{\sqrt[3]{(x+y)^3}} =$

9. $\log \frac{\sqrt[4]{x^2}}{\sqrt[3]{(x+y)^2}} =$

4. $\log \left(\sqrt[6]{x} \sqrt[4]{y} \right)^4 =$

10. $\log \left(\frac{\sqrt[4]{x}}{\sqrt{y}} \right)^1 =$

5. $\log \left(\frac{\sqrt[4]{x}}{\sqrt[6]{y}} \right)^3 =$

11. $\log \frac{\sqrt[4]{x^3}}{\sqrt[3]{y^5}} =$

6. $\log \left(\sqrt{(x+y)^3} \sqrt[6]{y^5} \right) =$

12. $\log \left(\sqrt{(x+y)^2} \sqrt[5]{y^5} \right) =$

Expand the logs.

Document No.LEX3007065

1. $\log \frac{\sqrt[3]{x}}{\sqrt[6]{(x+y)^2}} =$

7. $\log \frac{\sqrt[6]{x^4}}{\sqrt[5]{y^5}} =$

2. $\log (\sqrt{x} \sqrt[5]{y})^5 =$

8. $\log (\sqrt[5]{x} \sqrt[5]{y})^3 =$

3. $\log \sqrt{x^2} \sqrt[5]{y^4} =$

9. $\log (\sqrt[4]{x} \sqrt[3]{y})^3 =$

4. $\log \sqrt[6]{x^5} \sqrt[6]{y^3} =$

10. $\log \sqrt[4]{x^3} \sqrt[6]{y^2} =$

5. $\log \frac{\sqrt[6]{x^5}}{\sqrt{y^4}} =$

11. $\log \sqrt{x} \sqrt[3]{y^3} =$

6. $\log \left(\frac{\sqrt[3]{x}}{\sqrt[6]{y}} \right)^3 =$

12. $\log \frac{\sqrt[4]{x^2}}{\sqrt[3]{(x+y)^2}} =$

Expand the logs.

Document No.LEX3007066

$$1. \log \frac{\sqrt[6]{x^5}}{\sqrt[4]{(x+y)^2}} =$$

$$7. \log \frac{\sqrt{x^2}}{\sqrt[6]{(x+y)}} =$$

$$2. \log \left(\sqrt[3]{(x+y)^3} \sqrt[6]{y^5} \right) =$$

$$8. \log \frac{\sqrt{x^4}}{\sqrt[4]{(x+y)^4}} =$$

$$3. \log \left(\sqrt[3]{x} \sqrt[5]{y} \right)^5 =$$

$$9. \log \left(\frac{\sqrt[4]{x}}{\sqrt[5]{y}} \right)^5 =$$

$$4. \log \left(\sqrt[4]{x} \sqrt{y} \right)^4 =$$

$$10. \log \sqrt[3]{x} \sqrt[4]{y^2} =$$

$$5. \log \frac{\sqrt[6]{x^5}}{\sqrt{y}} =$$

$$11. \log \frac{\sqrt[3]{x}}{\sqrt[5]{(x+y)^3}} =$$

$$6. \log \frac{\sqrt[3]{x^4}}{\sqrt[6]{y}} =$$

$$12. \log \left(\frac{\sqrt[5]{x}}{\sqrt{y}} \right)^5 =$$

Expand the logs.

Document No.LEX3007067

$$1. \log \left(\sqrt[5]{x} \sqrt{y} \right)^3 =$$

$$7. \log \frac{\sqrt[4]{x}}{\sqrt[3]{y^4}} =$$

$$2. \log \frac{\sqrt[3]{x^4}}{\sqrt{(x+y)^3}} =$$

$$8. \log \frac{\sqrt[4]{x}}{\sqrt[4]{(x+y)^5}} =$$

$$3. \log \frac{\sqrt[4]{x^4}}{\sqrt[5]{(x+y)^4}} =$$

$$9. \log \left(\sqrt[3]{x} \sqrt[5]{y} \right)^2 =$$

$$4. \log \frac{\sqrt[4]{x^5}}{\sqrt[5]{(x+y)^4}} =$$

$$10. \log \frac{\sqrt[3]{x^5}}{\sqrt[5]{(x+y)^5}} =$$

$$5. \log \left(\sqrt[4]{x} \sqrt[3]{y} \right)^4 =$$

$$11. \log \frac{\sqrt[4]{x^5}}{\sqrt[6]{y^2}} =$$

$$6. \log \left(\frac{\sqrt[6]{x}}{\sqrt[6]{y}} \right)^3 =$$

$$12. \log \sqrt[3]{x^2} \sqrt{y} =$$

Expand the logs.

Document No.LEX3007068

$$1. \log \frac{\sqrt[4]{x^4}}{\sqrt[3]{(x+y)^4}} =$$

$$7. \log \frac{\sqrt[3]{x}}{\sqrt[6]{(x+y)^5}} =$$

$$2. \log \left(\frac{\sqrt{x}}{\sqrt[3]{y}} \right)^1 =$$

$$8. \log \left(\frac{\sqrt{x}}{\sqrt[6]{y}} \right)^1 =$$

$$3. \log \frac{\sqrt{x^2}}{\sqrt[5]{(x+y)^2}} =$$

$$9. \log \left(\sqrt[4]{(x+y)^2} \sqrt[3]{y^4} \right) =$$

$$4. \log \sqrt[6]{x^4} \sqrt[6]{y^5} =$$

$$10. \log \frac{\sqrt[5]{x^5}}{\sqrt[3]{y}} =$$

$$5. \log \frac{\sqrt[3]{x^2}}{\sqrt[6]{y^4}} =$$

$$11. \log \frac{\sqrt[6]{x^2}}{\sqrt[4]{y^4}} =$$

$$6. \log \frac{\sqrt{x^4}}{\sqrt[6]{y^4}} =$$

$$12. \log \sqrt{x^5} \sqrt[5]{y} =$$

Expand the logs.

Document No.LEX3007069

1. $\log \frac{\sqrt[5]{x^2}}{\sqrt[4]{(x+y)^3}} =$

7. $\log \left(\sqrt[3]{x} \sqrt[6]{y} \right)^2 =$

2. $\log \frac{\sqrt[3]{x^2}}{\sqrt[5]{y}} =$

8. $\log \left(\frac{\sqrt[6]{x}}{\sqrt[6]{y}} \right)^1 =$

3. $\log \left(\sqrt[4]{(x+y)^2} \sqrt[6]{y^5} \right) =$

9. $\log \frac{\sqrt[6]{x^3}}{\sqrt[4]{(x+y)^2}} =$

4. $\log \sqrt[3]{x^3} \sqrt[5]{y^3} =$

10. $\log \left(\frac{\sqrt{x}}{\sqrt{y}} \right)^2 =$

5. $\log \sqrt[3]{x^4} \sqrt[3]{y^2} =$

11. $\log \sqrt[5]{x^5} \sqrt[4]{y^5} =$

6. $\log \left(\frac{\sqrt[6]{x}}{\sqrt{y}} \right)^3 =$

12. $\log \left(\sqrt{x} \sqrt[5]{y} \right)^2 =$

Expand the logs.

Document No.LEX3007070

1. $\log \frac{\sqrt[5]{x^2}}{\sqrt[5]{(x+y)}} =$

7. $\log \left(\sqrt[5]{(x+y)^3} \sqrt[3]{y^2} \right) =$

2. $\log \left(\sqrt[3]{x} \sqrt[6]{y} \right)^4 =$

8. $\log \sqrt{x^5} \sqrt[5]{y^5} =$

3. $\log \left(\sqrt[5]{x} \sqrt[6]{y} \right)^5 =$

9. $\log \left(\sqrt{x} \sqrt[6]{y} \right)^2 =$

4. $\log \frac{\sqrt[6]{x^5}}{\sqrt[6]{y}} =$

10. $\log \left(\sqrt[3]{(x+y)^5} \sqrt[5]{y^2} \right) =$

5. $\log \frac{\sqrt[3]{x^5}}{\sqrt[5]{(x+y)}} =$

11. $\log \left(\frac{\sqrt[6]{x}}{\sqrt[3]{y}} \right)^4 =$

6. $\log \left(\frac{\sqrt[4]{x}}{\sqrt[5]{y}} \right)^1 =$

12. $\log \left(\frac{\sqrt[6]{x}}{\sqrt[5]{y}} \right)^3 =$

Expand the logs.

Document No.LEX3007071

1. $\log \sqrt[5]{x} \sqrt[4]{y^2} =$

7. $\log \left(\sqrt[5]{(x+y)^3} \sqrt[4]{y^5} \right) =$

2. $\log \left(\frac{\sqrt{x}}{\sqrt[4]{y}} \right)^5 =$

8. $\log \sqrt[5]{x^3} \sqrt[6]{y^3} =$

3. $\log \left(\sqrt[5]{(x+y)} \sqrt{y^5} \right) =$

9. $\log \left(\sqrt[3]{(x+y)^3} \sqrt[4]{y^4} \right) =$

4. $\log \frac{\sqrt[4]{x^5}}{\sqrt[3]{(x+y)}} =$

10. $\log \left(\frac{\sqrt{x}}{\sqrt[6]{y}} \right)^4 =$

5. $\log \frac{\sqrt[4]{x^3}}{\sqrt[6]{(x+y)^3}} =$

11. $\log \left(\frac{\sqrt[4]{x}}{\sqrt[6]{y}} \right)^2 =$

6. $\log \sqrt[4]{x^3} \sqrt[4]{y^5} =$

12. $\log \left(\sqrt[4]{x} \sqrt{y} \right)^1 =$

Expand the logs.

Document No.LEX3007072

1. $\log \left(\sqrt[4]{(x+y)^2} \sqrt{y} \right) =$

7. $\log \left(\sqrt[3]{(x+y)^2} \sqrt[5]{y^2} \right) =$

2. $\log \left(\frac{\sqrt[6]{x}}{\sqrt[5]{y}} \right)^1 =$

8. $\log \left(\sqrt[4]{x} \sqrt{y} \right)^4 =$

3. $\log \frac{\sqrt[3]{x^5}}{\sqrt[3]{y^3}} =$

9. $\log \left(\sqrt[6]{x} \sqrt[4]{y} \right)^4 =$

4. $\log \left(\sqrt[3]{(x+y)^4} \sqrt[3]{y^2} \right) =$

10. $\log \sqrt[3]{x} \sqrt[5]{y^2} =$

5. $\log \left(\sqrt[4]{x} \sqrt[5]{y} \right)^5 =$

11. $\log \sqrt[5]{x^2} \sqrt[6]{y^3} =$

6. $\log \left(\sqrt[3]{(x+y)^5} \sqrt[6]{y^5} \right) =$

12. $\log \frac{\sqrt[6]{x^5}}{\sqrt[5]{y^3}} =$

Expand the logs.

Document No.LEX3007073

1. $\log \frac{\sqrt[3]{x^2}}{\sqrt{y}} =$

7. $\log \frac{\sqrt[6]{x^5}}{\sqrt[4]{(x+y)^4}} =$

2. $\log \sqrt[6]{x^4} \sqrt{y^2} =$

8. $\log \frac{\sqrt[4]{x^5}}{\sqrt[6]{(x+y)^3}} =$

3. $\log \left(\sqrt{(x+y)^2} \sqrt[4]{y} \right) =$

9. $\log \frac{\sqrt[5]{x^3}}{\sqrt[5]{(x+y)^3}} =$

4. $\log \sqrt{x^2} \sqrt[5]{y^2} =$

10. $\log \left(\sqrt[6]{(x+y)^4} \sqrt[6]{y} \right) =$

5. $\log \sqrt[4]{x^2} \sqrt{y^5} =$

11. $\log \frac{\sqrt[3]{x^5}}{\sqrt{(x+y)^3}} =$

6. $\log \left(\frac{\sqrt{x}}{\sqrt[4]{y}} \right)^4 =$

12. $\log \frac{\sqrt[5]{x^2}}{\sqrt[3]{y^5}} =$

Expand the logs.

Document No.LEX3007074

$$1. \log \frac{\sqrt[6]{x^2}}{\sqrt{(x+y)^5}} =$$

$$7. \log \left(\sqrt[6]{(x+y)^4} \sqrt[6]{y^2} \right) =$$

$$2. \log \sqrt[3]{x^4} \sqrt{y^5} =$$

$$8. \log \frac{\sqrt[3]{x^3}}{\sqrt[6]{y}} =$$

$$3. \log \sqrt[4]{x^5} \sqrt{y^2} =$$

$$9. \log \left(\sqrt[6]{x} \sqrt[5]{y} \right)^3 =$$

$$4. \log \sqrt[5]{x} \sqrt{y^2} =$$

$$10. \log \left(\frac{\sqrt[4]{x}}{\sqrt{y}} \right)^1 =$$

$$5. \log \left(\frac{\sqrt{x}}{\sqrt[5]{y}} \right)^1 =$$

$$11. \log \left(\sqrt[3]{x} \sqrt[5]{y} \right)^1 =$$

$$6. \log \left(\frac{\sqrt[4]{x}}{\sqrt[3]{y}} \right)^1 =$$

$$12. \log \left(\sqrt[5]{x} \sqrt[4]{y} \right)^5 =$$

Expand the logs.

Document No.LEX3007075

$$1. \log \left(\sqrt[3]{x} \sqrt[3]{y} \right)^4 =$$

$$7. \log \left(\sqrt[5]{(x+y)^5} \sqrt{y^4} \right) =$$

$$2. \log \left(\sqrt[4]{(x+y)} \sqrt[3]{y^5} \right) =$$

$$8. \log \left(\frac{\sqrt[6]{x}}{\sqrt[4]{y}} \right)^2 =$$

$$3. \log \left(\sqrt[4]{x} \sqrt[5]{y} \right)^2 =$$

$$9. \log \left(\sqrt{x} \sqrt[3]{y} \right)^2 =$$

$$4. \log \frac{\sqrt{x}}{\sqrt{y^3}} =$$

$$10. \log \sqrt[6]{x^3} \sqrt[6]{y^5} =$$

$$5. \log \left(\frac{\sqrt[4]{x}}{\sqrt[5]{y}} \right)^3 =$$

$$11. \log \left(\sqrt[4]{x} \sqrt[6]{y} \right)^3 =$$

$$6. \log \frac{\sqrt[4]{x^2}}{\sqrt[6]{y^5}} =$$

$$12. \log \left(\sqrt[5]{x} \sqrt[4]{y} \right)^5 =$$

Expand the logs.

Document No.LEX3007076

1. $\log \sqrt[3]{x^4} \sqrt[4]{y^4} =$

7. $\log \sqrt{x^4} \sqrt[5]{y^2} =$

2. $\log \left(\frac{\sqrt[6]{x}}{\sqrt[3]{y}} \right)^1 =$

8. $\log \left(\frac{\sqrt[5]{x}}{\sqrt[5]{y}} \right)^3 =$

3. $\log \frac{\sqrt{x^2}}{\sqrt[3]{(x+y)^4}} =$

9. $\log \frac{\sqrt[6]{x^5}}{\sqrt{y^5}} =$

4. $\log \frac{\sqrt[5]{x^5}}{\sqrt[6]{(x+y)^4}} =$

10. $\log \left(\sqrt[6]{x} \sqrt[4]{y} \right)^3 =$

5. $\log \frac{\sqrt[4]{x^3}}{\sqrt[3]{y}} =$

11. $\log \left(\sqrt[3]{x} \sqrt[4]{y} \right)^3 =$

6. $\log \frac{\sqrt[3]{x}}{\sqrt[5]{(x+y)^4}} =$

12. $\log \left(\sqrt[5]{(x+y)^3} \sqrt[6]{y^5} \right) =$

Expand the logs.

Document No.LEX3007077

$$1. \log \left(\sqrt[6]{x} \sqrt{y} \right)^1 =$$

$$7. \log \left(\frac{\sqrt[4]{x}}{\sqrt[6]{y}} \right)^4 =$$

$$2. \log \left(\sqrt{(x+y)^4} \sqrt[6]{y^2} \right) =$$

$$8. \log \frac{\sqrt[6]{x}}{\sqrt[4]{y^2}} =$$

$$3. \log \left(\sqrt[4]{x} \sqrt[6]{y} \right)^4 =$$

$$9. \log \sqrt{x^5} \sqrt[5]{y^5} =$$

$$4. \log \sqrt{x} \sqrt{y^4} =$$

$$10. \log \frac{\sqrt[6]{x^3}}{\sqrt{y^5}} =$$

$$5. \log \left(\sqrt[6]{(x+y)^4} \sqrt[5]{y} \right) =$$

$$11. \log \frac{\sqrt{x^2}}{\sqrt[6]{(x+y)^3}} =$$

$$6. \log \sqrt[3]{x^2} \sqrt{y} =$$

$$12. \log \frac{\sqrt[5]{x^4}}{\sqrt{(x+y)^5}} =$$

Expand the logs.

Document No.LEX3007078

$$1. \log \left(\frac{\sqrt[6]{x}}{\sqrt[5]{y}} \right)^3 =$$

$$7. \log \frac{\sqrt{x^4}}{\sqrt[4]{(x+y)^3}} =$$

$$2. \log \frac{\sqrt[5]{x^3}}{\sqrt[4]{y^4}} =$$

$$8. \log \left(\sqrt[3]{(x+y)^2} \sqrt[5]{y^4} \right) =$$

$$3. \log \left(\sqrt[4]{(x+y)^5} \sqrt[5]{y^5} \right) =$$

$$9. \log \left(\sqrt[3]{x} \sqrt[4]{y} \right)^5 =$$

$$4. \log \left(\sqrt[5]{(x+y)^3} \sqrt{y^3} \right) =$$

$$10. \log \frac{\sqrt[6]{x^5}}{\sqrt[6]{y^4}} =$$

$$5. \log \left(\frac{\sqrt[6]{x}}{\sqrt[6]{y}} \right)^5 =$$

$$11. \log \frac{\sqrt[3]{x^2}}{\sqrt{y^3}} =$$

$$6. \log \frac{\sqrt{x^5}}{\sqrt[4]{(x+y)^2}} =$$

$$12. \log \left(\sqrt{x} \sqrt{y} \right)^2 =$$

Expand the logs.

Document No.LEX3007079

1. $\log \frac{\sqrt[6]{x^5}}{\sqrt{y^2}} =$

7. $\log \left(\frac{\sqrt{x}}{\sqrt[3]{y}} \right)^2 =$

2. $\log \left(\frac{\sqrt{x}}{\sqrt[4]{y}} \right)^3 =$

8. $\log \left(\sqrt[4]{(x+y)^2} \sqrt[5]{y^4} \right) =$

3. $\log \frac{\sqrt[5]{x^5}}{\sqrt[5]{y^4}} =$

9. $\log \left(\frac{\sqrt{x}}{\sqrt[6]{y}} \right)^1 =$

4. $\log \sqrt{x^5} \sqrt[6]{y^4} =$

10. $\log \left(\frac{\sqrt[6]{x}}{\sqrt{y}} \right)^5 =$

5. $\log \frac{\sqrt[5]{x^4}}{\sqrt[5]{y}} =$

11. $\log \left(\sqrt[3]{x} \sqrt[5]{y} \right)^3 =$

6. $\log \frac{\sqrt[5]{x^4}}{\sqrt[5]{(x+y)}} =$

12. $\log \frac{\sqrt[3]{x^4}}{\sqrt[5]{(x+y)}} =$

Expand the logs.

Document No.LEX3007080

1. $\log \frac{\sqrt{x^3}}{\sqrt[3]{y^4}} =$

7. $\log \left(\sqrt[5]{x} \sqrt[5]{y} \right)^5 =$

2. $\log \frac{\sqrt[3]{x^2}}{\sqrt[3]{y^3}} =$

8. $\log \sqrt[5]{x^4} \sqrt[6]{y^3} =$

3. $\log \left(\sqrt[6]{(x+y)^5} \sqrt[3]{y^3} \right) =$

9. $\log \frac{\sqrt[5]{x^4}}{\sqrt{y^2}} =$

4. $\log \sqrt[5]{x^3} \sqrt[6]{y^4} =$

10. $\log \frac{\sqrt[3]{x^5}}{\sqrt[4]{y^3}} =$

5. $\log \left(\sqrt{x} \sqrt[4]{y} \right)^1 =$

11. $\log \frac{\sqrt[5]{x^3}}{\sqrt[4]{(x+y)^5}} =$

6. $\log \frac{\sqrt[6]{x^2}}{\sqrt[3]{(x+y)}} =$

12. $\log \left(\frac{\sqrt{x}}{\sqrt[4]{y}} \right)^5 =$

Expand the logs.

Document No.LEX3007081

1. $\log \frac{\sqrt[6]{x}}{\sqrt[3]{(x+y)^3}} =$

7. $\log \frac{\sqrt{x}}{\sqrt[6]{y^3}} =$

2. $\log \left(\frac{\sqrt[6]{x}}{\sqrt[3]{y}} \right)^2 =$

8. $\log \frac{\sqrt[5]{x^5}}{\sqrt[3]{(x+y)^2}} =$

3. $\log \frac{\sqrt[3]{x^4}}{\sqrt[6]{(x+y)^5}} =$

9. $\log \left(\sqrt[6]{(x+y)^5} \sqrt[3]{y^5} \right) =$

4. $\log \sqrt{x^4} \sqrt[4]{y^5} =$

10. $\log \left(\sqrt{x} \sqrt[6]{y} \right)^1 =$

5. $\log \left(\sqrt[3]{(x+y)^4} \sqrt[3]{y^3} \right) =$

11. $\log \left(\sqrt[6]{x} \sqrt[5]{y} \right)^1 =$

6. $\log \left(\sqrt[3]{x} \sqrt[4]{y} \right)^5 =$

12. $\log \frac{\sqrt[5]{x^3}}{\sqrt[4]{y^2}} =$

Expand the logs.

Document No.LEX3007082

1. $\log \sqrt{x^4} \sqrt[3]{y^3} =$

7. $\log \sqrt{x^3} \sqrt[4]{y} =$

2. $\log \left(\sqrt{(x+y)} \sqrt{y^2} \right) =$

8. $\log \frac{\sqrt[4]{x^5}}{\sqrt[4]{(x+y)}} =$

3. $\log \frac{\sqrt[5]{x^3}}{\sqrt[6]{(x+y)}} =$

9. $\log \left(\sqrt[3]{x} \sqrt[6]{y} \right)^4 =$

4. $\log \left(\sqrt[4]{(x+y)^3} \sqrt[5]{y} \right) =$

10. $\log \left(\sqrt[5]{(x+y)^5} \sqrt{y^4} \right) =$

5. $\log \frac{\sqrt[3]{x}}{\sqrt[4]{y^5}} =$

11. $\log \left(\sqrt[6]{(x+y)} \sqrt[4]{y} \right) =$

6. $\log \frac{\sqrt[3]{x}}{\sqrt[6]{(x+y)^4}} =$

12. $\log \frac{\sqrt[6]{x}}{\sqrt[6]{y^4}} =$

Expand the logs.

Document No.LEX3007083

$$1. \log \left(\sqrt[3]{(x+y)} \sqrt[5]{y^3} \right) =$$

$$7. \log \left(\frac{\sqrt[4]{x}}{\sqrt{y}} \right)^4 =$$

$$2. \log \left(\frac{\sqrt{x}}{\sqrt[6]{y}} \right)^3 =$$

$$8. \log \left(\frac{\sqrt[3]{x}}{\sqrt[4]{y}} \right)^3 =$$

$$3. \log \sqrt[5]{x^3} \sqrt[3]{y} =$$

$$9. \log \frac{\sqrt{x^2}}{\sqrt[4]{(x+y)}} =$$

$$4. \log \frac{\sqrt[6]{x}}{\sqrt[4]{(x+y)^3}} =$$

$$10. \log \left(\frac{\sqrt{x}}{\sqrt[6]{y}} \right)^3 =$$

$$5. \log \sqrt[4]{x^4} \sqrt[3]{y^5} =$$

$$11. \log \left(\sqrt{(x+y)^5} \sqrt[5]{y^5} \right) =$$

$$6. \log \frac{\sqrt[5]{x^5}}{\sqrt[3]{y^5}} =$$

$$12. \log \sqrt{x^2} \sqrt[6]{y^4} =$$

Expand the logs.

Document No.LEX3007084

$$1. \log \left(\sqrt{(x+y)^4} \sqrt[3]{y^4} \right) =$$

$$7. \log \sqrt[4]{x^3} \sqrt[3]{y} =$$

$$2. \log \frac{\sqrt[5]{x}}{\sqrt[5]{y^2}} =$$

$$8. \log \left(\sqrt[5]{(x+y)^3} \sqrt[4]{y^3} \right) =$$

$$3. \log \left(\sqrt[5]{(x+y)^3} \sqrt[5]{y^3} \right) =$$

$$9. \log \frac{\sqrt[5]{x^2}}{\sqrt[6]{y^3}} =$$

$$4. \log \left(\frac{\sqrt[5]{x}}{\sqrt[5]{y}} \right)^1 =$$

$$10. \log \left(\sqrt[6]{(x+y)^5} \sqrt[4]{y^4} \right) =$$

$$5. \log \left(\sqrt[5]{x} \sqrt[4]{y} \right)^5 =$$

$$11. \log \frac{\sqrt[6]{x^3}}{\sqrt[5]{(x+y)^4}} =$$

$$6. \log \frac{\sqrt[5]{x^4}}{\sqrt[3]{(x+y)^5}} =$$

$$12. \log \frac{\sqrt[5]{x^3}}{\sqrt[4]{y^5}} =$$

Expand the logs.

Document No.LEX3007085

$$1. \log \left(\sqrt[6]{x} \sqrt[3]{y} \right)^1 =$$

$$7. \log \left(\frac{\sqrt{x}}{\sqrt[3]{y}} \right)^1 =$$

$$2. \log \left(\sqrt[5]{x} \sqrt{y} \right)^4 =$$

$$8. \log \left(\sqrt[4]{(x+y)^3} \sqrt[3]{y^5} \right) =$$

$$3. \log \left(\sqrt[6]{(x+y)^2} \sqrt{y^5} \right) =$$

$$9. \log \sqrt{x^2} \sqrt[6]{y} =$$

$$4. \log \frac{\sqrt{x^4}}{\sqrt[4]{(x+y)}} =$$

$$10. \log \left(\sqrt[6]{(x+y)^3} \sqrt[5]{y^3} \right) =$$

$$5. \log \frac{\sqrt[4]{x^4}}{\sqrt[6]{y}} =$$

$$11. \log \frac{\sqrt{x^2}}{\sqrt{y^2}} =$$

$$6. \log \frac{\sqrt[6]{x^3}}{\sqrt[6]{y^5}} =$$

$$12. \log \sqrt[3]{x^3} \sqrt[3]{y^5} =$$

Expand the logs.

Document No.LEX3007086

$$1. \log \left(\sqrt{(x+y)^4} \sqrt[6]{y^4} \right) =$$

$$7. \log \left(\sqrt[6]{x} \sqrt[4]{y} \right)^2 =$$

$$2. \log \left(\sqrt[6]{x} \sqrt{y} \right)^2 =$$

$$8. \log \left(\sqrt{x} \sqrt[6]{y} \right)^1 =$$

$$3. \log \left(\frac{\sqrt[5]{x}}{\sqrt[3]{y}} \right)^1 =$$

$$9. \log \left(\sqrt[5]{x} \sqrt[6]{y} \right)^3 =$$

$$4. \log \left(\frac{\sqrt[5]{x}}{\sqrt[5]{y}} \right)^5 =$$

$$10. \log \left(\frac{\sqrt[6]{x}}{\sqrt{y}} \right)^2 =$$

$$5. \log \left(\sqrt[6]{(x+y)^2} \sqrt[6]{y^4} \right) =$$

$$11. \log \frac{\sqrt[4]{x^3}}{\sqrt{y}} =$$

$$6. \log \left(\sqrt[6]{(x+y)} \sqrt[5]{y} \right) =$$

$$12. \log \left(\sqrt{x} \sqrt[4]{y} \right)^5 =$$

Expand the logs.

Document No.LEX3007087

1. $\log \left(\frac{\sqrt[3]{x}}{\sqrt[6]{y}} \right)^2 =$

7. $\log \left(\frac{\sqrt[6]{x}}{\sqrt[3]{y}} \right)^5 =$

2. $\log \left(\frac{\sqrt{x}}{\sqrt[6]{y}} \right)^3 =$

8. $\log \frac{\sqrt[5]{x^4}}{\sqrt[5]{(x+y)^2}} =$

3. $\log \sqrt[6]{x^2} \sqrt[6]{y^2} =$

9. $\log \frac{\sqrt{x^3}}{\sqrt[4]{y^2}} =$

4. $\log \frac{\sqrt[5]{x}}{\sqrt[3]{y}} =$

10. $\log \frac{\sqrt[3]{x^2}}{\sqrt[4]{(x+y)}} =$

5. $\log \left(\frac{\sqrt[3]{x}}{\sqrt[3]{y}} \right)^5 =$

11. $\log \frac{\sqrt{x}}{\sqrt[3]{y^2}} =$

6. $\log \left(\sqrt[6]{x} \sqrt{y} \right)^2 =$

12. $\log \left(\sqrt{(x+y)} \sqrt{y^4} \right) =$

Expand the logs.

Document No.LEX3007088

1. $\log \left(\frac{\sqrt[5]{x}}{\sqrt{y}} \right)^4 =$

7. $\log \left(\sqrt[5]{x} \sqrt[6]{y} \right)^1 =$

2. $\log \left(\frac{\sqrt[3]{x}}{\sqrt{y}} \right)^3 =$

8. $\log \left(\sqrt[5]{x} \sqrt{y} \right)^5 =$

3. $\log \left(\sqrt[4]{(x+y)} \sqrt[4]{y} \right) =$

9. $\log \frac{\sqrt[4]{x^3}}{\sqrt[4]{(x+y)^3}} =$

4. $\log \sqrt[5]{x^3} \sqrt[5]{y^5} =$

10. $\log \frac{\sqrt[5]{x}}{\sqrt[6]{(x+y)^2}} =$

5. $\log \frac{\sqrt{x^3}}{\sqrt[3]{y^4}} =$

11. $\log \sqrt[3]{x^2} \sqrt[4]{y^2} =$

6. $\log \frac{\sqrt[3]{x^4}}{\sqrt[3]{y^4}} =$

12. $\log \left(\sqrt[5]{(x+y)^4} \sqrt[4]{y^5} \right) =$

Expand the logs.

Document No.LEX3007089

1. $\log \frac{\sqrt{x^2}}{\sqrt[3]{y}} =$

7. $\log \frac{\sqrt[4]{x}}{\sqrt[6]{y^3}} =$

2. $\log \frac{\sqrt[5]{x^5}}{\sqrt{(x+y)^2}} =$

8. $\log \frac{\sqrt[5]{x}}{\sqrt[3]{(x+y)}} =$

3. $\log \frac{\sqrt[4]{x^2}}{\sqrt[4]{(x+y)}} =$

9. $\log \frac{\sqrt[4]{x^3}}{\sqrt[5]{y^2}} =$

4. $\log \left(\frac{\sqrt[6]{x}}{\sqrt[6]{y}} \right)^4 =$

10. $\log \left(\sqrt{x} \sqrt[6]{y} \right)^2 =$

5. $\log \left(\sqrt{(x+y)} \sqrt[5]{y^3} \right) =$

11. $\log \frac{\sqrt[5]{x^3}}{\sqrt[3]{y^3}} =$

6. $\log \frac{\sqrt{x^5}}{\sqrt{(x+y)^2}} =$

12. $\log \left(\sqrt[3]{(x+y)^4} \sqrt[6]{y^2} \right) =$

Expand the logs.

Document No.LEX3007090

1. $\log \sqrt{x^5} \sqrt{y^3} =$

7. $\log \frac{\sqrt[3]{x}}{\sqrt[5]{y^2}} =$

2. $\log (\sqrt{x} \sqrt[4]{y})^5 =$

8. $\log (\sqrt[6]{x} \sqrt[5]{y})^3 =$

3. $\log \left(\frac{\sqrt{x}}{\sqrt{y}}\right)^2 =$

9. $\log (\sqrt{x} \sqrt[4]{y})^1 =$

4. $\log \sqrt[3]{x^2} \sqrt[3]{y^5} =$

10. $\log \left(\frac{\sqrt[5]{x}}{\sqrt[5]{y}}\right)^4 =$

5. $\log (\sqrt{(x+y)^3} \sqrt[6]{y^5}) =$

11. $\log (\sqrt{(x+y)^2} \sqrt[3]{y^4}) =$

6. $\log \frac{\sqrt{x}}{\sqrt[3]{(x+y)^2}} =$

12. $\log \left(\frac{\sqrt{x}}{\sqrt[4]{y}}\right)^4 =$

Expand the logs.

Document No.LEX3007091

$$1. \log \left(\sqrt[4]{x} \sqrt[6]{y} \right)^2 =$$

$$7. \log \frac{\sqrt[3]{x^5}}{\sqrt[4]{y^3}} =$$

$$2. \log \sqrt[5]{x^3} \sqrt[6]{y^2} =$$

$$8. \log \sqrt{x^5} \sqrt[3]{y} =$$

$$3. \log \left(\frac{\sqrt{x}}{\sqrt[4]{y}} \right)^1 =$$

$$9. \log \left(\sqrt[3]{(x+y)^5} \sqrt{y^4} \right) =$$

$$4. \log \left(\sqrt[6]{x} \sqrt[6]{y} \right)^3 =$$

$$10. \log \left(\sqrt[3]{x} \sqrt[4]{y} \right)^5 =$$

$$5. \log \left(\frac{\sqrt[4]{x}}{\sqrt[3]{y}} \right)^5 =$$

$$11. \log \left(\sqrt[4]{(x+y)^3} \sqrt{y^2} \right) =$$

$$6. \log \left(\sqrt[5]{x} \sqrt[5]{y} \right)^2 =$$

$$12. \log \left(\sqrt[6]{x} \sqrt[3]{y} \right)^5 =$$

Expand the logs.

Document No.LEX3007092

$$1. \log \left(\sqrt{(x+y)^5} \sqrt[4]{y^5} \right) =$$

$$7. \log \frac{\sqrt[6]{x^5}}{\sqrt[6]{y^5}} =$$

$$2. \log \left(\sqrt[4]{x} \sqrt[5]{y} \right)^1 =$$

$$8. \log \frac{\sqrt[5]{x^2}}{\sqrt[6]{(x+y)^4}} =$$

$$3. \log \frac{\sqrt[3]{x}}{\sqrt[3]{(x+y)^5}} =$$

$$9. \log \frac{\sqrt[5]{x^4}}{\sqrt{(x+y)}} =$$

$$4. \log \frac{\sqrt[4]{x^5}}{\sqrt{y^4}} =$$

$$10. \log \frac{\sqrt{x^5}}{\sqrt[4]{(x+y)^3}} =$$

$$5. \log \left(\sqrt[5]{x} \sqrt[7]{y} \right)^5 =$$

$$11. \log \left(\sqrt[3]{(x+y)} \sqrt[4]{y} \right) =$$

$$6. \log \left(\sqrt[6]{(x+y)^2} \sqrt[6]{y^5} \right) =$$

$$12. \log \frac{\sqrt[6]{x^2}}{\sqrt{y}} =$$

Expand the logs.

Document No.LEX3007093

$$1. \log \frac{\sqrt[6]{x^2}}{\sqrt{y^3}} =$$

$$7. \log \left(\sqrt[4]{x} \sqrt[5]{y} \right)^3 =$$

$$2. \log \left(\sqrt[5]{(x+y)^3} \sqrt[4]{y^4} \right) =$$

$$8. \log \frac{\sqrt[5]{x^2}}{\sqrt[4]{(x+y)^3}} =$$

$$3. \log \frac{\sqrt{x^5}}{\sqrt{y^3}} =$$

$$9. \log \frac{\sqrt[6]{x^4}}{\sqrt[6]{y^3}} =$$

$$4. \log \left(\sqrt{(x+y)} \sqrt[6]{y^5} \right) =$$

$$10. \log \frac{\sqrt[5]{x}}{\sqrt{y^3}} =$$

$$5. \log \left(\sqrt[5]{(x+y)^3} \sqrt[4]{y^3} \right) =$$

$$11. \log \left(\frac{\sqrt[5]{x}}{\sqrt[5]{y}} \right)^2 =$$

$$6. \log \left(\sqrt[6]{x} \sqrt[4]{y} \right)^4 =$$

$$12. \log \left(\sqrt[6]{x} \sqrt[6]{y} \right)^2 =$$

Expand the logs.

Document No.LEX3007094

$$1. \log \left(\sqrt[3]{x} \sqrt{y} \right)^2 =$$

$$7. \log \left(\frac{\sqrt[6]{x}}{\sqrt{y}} \right)^4 =$$

$$2. \log \frac{\sqrt[3]{x^5}}{\sqrt{(x+y)^3}} =$$

$$8. \log \frac{\sqrt[3]{x^3}}{\sqrt[3]{(x+y)^3}} =$$

$$3. \log \frac{\sqrt{x^3}}{\sqrt[6]{y^5}} =$$

$$9. \log \frac{\sqrt[5]{x}}{\sqrt[4]{(x+y)}} =$$

$$4. \log \sqrt[4]{x^2} \sqrt[5]{y^4} =$$

$$10. \log \left(\sqrt[4]{x} \sqrt[6]{y} \right)^2 =$$

$$5. \log \frac{\sqrt{x}}{\sqrt{y^3}} =$$

$$11. \log \left(\frac{\sqrt[4]{x}}{\sqrt{y}} \right)^2 =$$

$$6. \log \left(\sqrt{x} \sqrt[5]{y} \right)^3 =$$

$$12. \log \left(\sqrt[3]{(x+y)^5} \sqrt[6]{y^5} \right) =$$

Expand the logs.

Document No.LEX3007095

1. $\log \frac{\sqrt[6]{x^5}}{\sqrt{y^4}} =$

7. $\log \left(\sqrt[3]{(x+y)^4} \sqrt{y^2} \right) =$

2. $\log \left(\frac{\sqrt[6]{x}}{\sqrt[4]{y}} \right)^2 =$

8. $\log \frac{\sqrt[3]{x}}{\sqrt[3]{y}} =$

3. $\log \left(\frac{\sqrt[3]{x}}{\sqrt[3]{y}} \right)^2 =$

9. $\log \frac{\sqrt[3]{x^5}}{\sqrt[4]{(x+y)}} =$

4. $\log \frac{\sqrt[3]{x^3}}{\sqrt[5]{(x+y)^4}} =$

10. $\log \sqrt[3]{x} \sqrt[4]{y^5} =$

5. $\log \left(\sqrt[5]{(x+y)^3} \sqrt[4]{y^4} \right) =$

11. $\log \frac{\sqrt[6]{x}}{\sqrt[5]{(x+y)}} =$

6. $\log \frac{\sqrt{x^2}}{\sqrt[5]{y^5}} =$

12. $\log \frac{\sqrt[4]{x^2}}{\sqrt[4]{y}} =$

Expand the logs.

Document No.LEX3007096

$$1. \log \frac{\sqrt{x^5}}{\sqrt[5]{(x+y)^2}} =$$

$$7. \log \sqrt[6]{x^2} \sqrt[4]{y} =$$

$$2. \log \left(\sqrt[3]{x} \sqrt[3]{y} \right)^5 =$$

$$8. \log \left(\sqrt[6]{x} \sqrt[5]{y} \right)^5 =$$

$$3. \log \sqrt[5]{x} \sqrt[4]{y^4} =$$

$$9. \log \frac{\sqrt[5]{x^4}}{\sqrt[4]{(x+y)^2}} =$$

$$4. \log \frac{\sqrt[5]{x}}{\sqrt[5]{(x+y)^3}} =$$

$$10. \log \left(\sqrt{x} \sqrt[4]{y} \right)^2 =$$

$$5. \log \left(\frac{\sqrt[6]{x}}{\sqrt[6]{y}} \right)^5 =$$

$$11. \log \frac{\sqrt[5]{x^2}}{\sqrt{(x+y)^2}} =$$

$$6. \log \left(\sqrt{x} \sqrt[4]{y} \right)^1 =$$

$$12. \log \sqrt[5]{x^2} \sqrt[4]{y^5} =$$

Expand the logs.

Document No.LEX3007097

$$1. \log \frac{\sqrt[6]{x^3}}{\sqrt[6]{(x+y)^4}} =$$

$$7. \log \left(\sqrt[4]{(x+y)^4} \sqrt[4]{y^5} \right) =$$

$$2. \log \frac{\sqrt[3]{x^4}}{\sqrt{(x+y)^5}} =$$

$$8. \log \left(\sqrt{(x+y)^5} \sqrt[6]{y^4} \right) =$$

$$3. \log \frac{\sqrt[6]{x^5}}{\sqrt[4]{y^3}} =$$

$$9. \log \frac{\sqrt[5]{x^5}}{\sqrt[4]{(x+y)}} =$$

$$4. \log \left(\sqrt[5]{x} \sqrt[6]{y} \right)^2 =$$

$$10. \log \left(\sqrt[4]{x} \sqrt[5]{y} \right)^2 =$$

$$5. \log \sqrt{x^3} \sqrt[3]{y} =$$

$$11. \log \frac{\sqrt[3]{x^2}}{\sqrt[4]{(x+y)^4}} =$$

$$6. \log \left(\sqrt{(x+y)^3} \sqrt{y^5} \right) =$$

$$12. \log \frac{\sqrt[3]{x^2}}{\sqrt{y^4}} =$$

Expand the logs.

Document No.LEX3007098

1. $\log \frac{\sqrt{x}}{\sqrt[6]{y^2}} =$

7. $\log \left(\frac{\sqrt[4]{x}}{\sqrt{y}} \right)^1 =$

2. $\log \left(\sqrt[4]{(x+y)^3} \sqrt[4]{y} \right) =$

8. $\log \left(\sqrt{x} \sqrt{y} \right)^5 =$

3. $\log \left(\frac{\sqrt[5]{x}}{\sqrt[6]{y}} \right)^1 =$

9. $\log \left(\sqrt{(x+y)^3} \sqrt[4]{y^3} \right) =$

4. $\log \frac{\sqrt[6]{x}}{\sqrt{y}} =$

10. $\log \frac{\sqrt[3]{x}}{\sqrt[3]{y^5}} =$

5. $\log \left(\sqrt[4]{x} \sqrt[5]{y} \right)^3 =$

11. $\log \sqrt[3]{x^4} \sqrt[4]{y^3} =$

6. $\log \sqrt[5]{x^2} \sqrt{y} =$

12. $\log \frac{\sqrt{x}}{\sqrt{y^4}} =$

Expand the logs.

Document No.LEX3007099

1. $\log \sqrt[5]{x} \sqrt[4]{y^2} =$

7. $\log \left(\sqrt[5]{x} \sqrt{y} \right)^2 =$

2. $\log \left(\frac{\sqrt[4]{x}}{\sqrt[3]{y}} \right)^1 =$

8. $\log \left(\sqrt[3]{(x+y)^2} \sqrt[4]{y^3} \right) =$

3. $\log \frac{\sqrt[4]{x}}{\sqrt[5]{y^5}} =$

9. $\log \left(\sqrt[4]{x} \sqrt{y} \right)^2 =$

4. $\log \frac{\sqrt{x^4}}{\sqrt[6]{(x+y)^4}} =$

10. $\log \sqrt[6]{x^3} \sqrt{y^2} =$

5. $\log \sqrt[5]{x} \sqrt[4]{y} =$

11. $\log \left(\sqrt[3]{x} \sqrt{y} \right)^1 =$

6. $\log \sqrt[6]{x^4} \sqrt[5]{y^4} =$

12. $\log \left(\sqrt[5]{(x+y)^4} \sqrt[5]{y^5} \right) =$

Expand the logs.

Document No.LEX3007100

1. $\log \left(\sqrt[6]{(x+y)^3} \sqrt[4]{y^2} \right) =$

7. $\log \sqrt{x^2} \sqrt[5]{y^4} =$

2. $\log \left(\frac{\sqrt[5]{x}}{\sqrt[3]{y}} \right)^2 =$

8. $\log \frac{\sqrt[5]{x}}{\sqrt[5]{y}} =$

3. $\log \frac{\sqrt[4]{x}}{\sqrt[6]{y^3}} =$

9. $\log \frac{\sqrt[4]{x}}{\sqrt[4]{(x+y)^2}} =$

4. $\log \left(\sqrt[5]{x} \sqrt[3]{y} \right)^5 =$

10. $\log \sqrt[5]{x^3} \sqrt[4]{y^3} =$

5. $\log \frac{\sqrt[3]{x^3}}{\sqrt[4]{(x+y)^5}} =$

11. $\log \left(\sqrt[3]{x} \sqrt[4]{y} \right)^1 =$

6. $\log \left(\sqrt[6]{(x+y)^5} \sqrt{y^4} \right) =$

12. $\log \frac{\sqrt[6]{x^5}}{\sqrt[3]{(x+y)^4}} =$

Document No. LEX3007001

1. $\frac{5}{2} \log(x+y) + \frac{1}{3} \log y$
2. $\frac{5}{2} \log(x+y) + \frac{1}{3} \log y$
3. $\log x - \frac{3}{4} \log y$
4. $\frac{1}{2} \log x - \frac{1}{2} \log y$
5. $\log x - \frac{1}{2} \log y$
6. $\frac{3}{5} \log x + \frac{1}{3} \log y$
7. $\log x - \frac{3}{4} \log y$
8. $\frac{5}{6} \log x + \log y$
9. $\frac{5}{6} \log x + \log y$
10. $\frac{5}{4} \log(x+y) + \frac{1}{4} \log y$
11. $\frac{5}{4} \log(x+y) + \frac{1}{4} \log y$
12. $\frac{5}{4} \log(x+y) + \frac{1}{4} \log y$

Document No. LEX3007002

1. $\frac{5}{4} \log(x+y) + \frac{1}{4} \log y$
2. $\frac{5}{3} \log(x+y) + \frac{1}{3} \log y$
3. $\log x + \frac{5}{4} \log y$
4. $\frac{4}{5} \log x + 2 \log y$
5. $\frac{4}{3} \log x + 2 \log y$
6. $\log x + \frac{1}{2} \log y$
7. $\frac{2}{3} \log x + \frac{2}{3} \log y$
8. $\frac{1}{6} \log(x+y) + \frac{1}{3} \log y$
9. $\log(x+y) + \frac{1}{2} \log y$
10. $\frac{1}{5} \log(x+y) + \frac{2}{3} \log y$
11. $\frac{1}{5} \log x - \frac{1}{6} \log y$
12. $\frac{4}{3} \log x + \frac{2}{3} \log y$

Document No. LEX3007003

1. $\frac{5}{2} \log x + \frac{5}{4} \log y$
2. $\log x + \log y$
3. $\log x + \log y$
4. $\log x + \log y$
5. $\frac{4}{5} \log x - \frac{4}{5} \log y$
6. $\log x + \frac{2}{3} \log y$
7. $\frac{1}{4} \log x - \frac{1}{4} \log y$
8. $\frac{3}{4} \log(x+y) + \frac{4}{5} \log y$
9. $\frac{3}{4} \log(x+y) + \frac{4}{5} \log y$
10. $\log x + \frac{2}{3} \log y$
11. $\frac{1}{2} \log x - \log(x+y)$
12. $\frac{1}{2} \log x - \frac{1}{2} \log(x+y)$

Document No. LEX3007004

1. $\frac{5}{3} \log x + \frac{5}{2} \log y$
2. $\frac{5}{3} \log x + \log y$
3. $\frac{5}{3} \log x + \frac{5}{2} \log y$
4. $\frac{1}{2} \log x + \frac{1}{2} \log y$

5. $\frac{1}{2} \log x + \frac{1}{2} \log y$
6. $\frac{2}{3} \log x + \frac{4}{5} \log y$
7. $\frac{4}{5} \log x - \frac{1}{3} \log(x+y)$
8. $\frac{1}{3} \log x - \frac{1}{3} \log y$
9. $\frac{1}{3} \log x - \frac{1}{3} \log y$
10. $\frac{1}{3} \log x - \frac{1}{3} \log y$
11. $\frac{1}{3} \log x - \frac{1}{3} \log y$
12. $\frac{5}{6} \log(x+y) + \frac{1}{4} \log y$

Document No. LEX3007005

1. $\log x + \frac{1}{2} \log y$
2. $2 \log x + \frac{1}{2} \log y$
3. $\frac{5}{3} \log x - \frac{1}{4} \log(x+y)$
4. $\frac{1}{2} \log x - \frac{1}{2} \log y$
5. $\log x - \frac{3}{2} \log y$
6. $\frac{2}{3} \log x - \frac{1}{3} \log(x+y)$
7. $\frac{2}{3} \log x - \frac{1}{3} \log(x+y)$
8. $\log x - 2 \log y$
9. $\frac{5}{4} \log x + \frac{5}{3} \log y$
10. $\frac{3}{4} \log x - \frac{3}{2} \log(x+y)$
11. $\frac{3}{4} \log x - \frac{3}{2} \log(x+y)$
12. $\frac{1}{4} \log x - \frac{5}{2} \log(x+y)$

Document No. LEX3007006

1. $\frac{4}{3} \log(x+y) + 2 \log y$
2. $\frac{3}{3} \log x + \frac{1}{2} \log y$
3. $\frac{3}{4} \log x + \frac{1}{4} \log y$
4. $\frac{1}{4} \log x - \frac{5}{6} \log(x+y)$
5. $\frac{1}{3} \log x - \frac{1}{5} \log y$
6. $\frac{1}{3} \log x - \frac{1}{5} \log y$
7. $\frac{1}{3} \log(x+y) + \frac{2}{3} \log y$
8. $\frac{1}{3} \log(x+y) + \frac{2}{3} \log y$
9. $\frac{1}{3} \log(x+y) + \frac{2}{3} \log y$
10. $\frac{5}{4} \log x - \frac{4}{3} \log(x+y)$
11. $\frac{1}{5} \log x - \frac{1}{5} \log y$
12. $\frac{1}{6} \log x - \frac{1}{4} \log y$

Document No. LEX3007007

1. $\log(x+y) + \frac{2}{3} \log y$
2. $\log(x+y) + \frac{2}{3} \log y$
3. $\log(x+y) + \frac{2}{3} \log y$
4. $\frac{1}{6} \log(x+y) + \frac{1}{6} \log y$
5. $\frac{4}{3} \log x - \log y$
6. $\frac{3}{2} \log x - \frac{5}{2} \log(x+y)$
7. $\frac{5}{4} \log(x+y) + \frac{3}{5} \log y$
8. $\frac{5}{6} \log x + \frac{5}{6} \log y$
9. $\frac{5}{6} \log x + \frac{5}{6} \log y$

- 10.1 $\log x - \frac{3}{5} \log y$
11. $\frac{1}{3} \log x - \frac{1}{2} \log y$
12. $\frac{1}{3} \log x - \frac{1}{2} \log y$

Document No. LEX3007008

1. $\frac{1}{3} \log x - \frac{1}{2} \log y$
2. $\frac{1}{3} \log x - \frac{1}{2} \log y$
3. $\frac{1}{3} \log x - \frac{1}{2} \log y$
4. $\frac{1}{3} \log x - \frac{1}{2} \log y$
5. $\frac{1}{3} \log x - \frac{1}{2} \log y$
- 6.1 $\log x - \frac{4}{5} \log(x + y)$
- 7.1 $\log x - \frac{4}{5} \log(x + y)$
8. $\frac{5}{2} \log(x + y) + \frac{2}{3} \log y$
9. $\frac{5}{2} \log(x + y) + \frac{2}{3} \log y$
10. $\frac{1}{2} \log(x + y) + \frac{2}{5} \log y$
11. $\frac{2}{3} \log x - \frac{2}{3} \log y$
12. $\frac{3}{3} \log x - \frac{3}{3} \log y$

Document No. LEX3007009

1. $\frac{4}{3} \log x - \log(x + y)$
2. $\log x - 2 \log y$
3. $\log x - 2 \log y$
4. $\log x - \frac{5}{6} \log y$
- 5.1 $\log x - \log y$
6. $\frac{2}{3} \log x - \frac{1}{2} \log(x + y)$
7. $\frac{4}{5} \log(x + y) + \frac{3}{5} \log y$
- 8.1 $\log x - \log y$
- 9.1 $\log x + \frac{3}{5} \log y$
10. $\frac{1}{3} \log(x + y) + \frac{1}{2} \log y$
- 11.1 $\log x - \frac{3}{4} \log y$
- 12.1 $\log(x + y) + \frac{5}{4} \log y$

Document No. LEX3007010

- 1.1 $\log x - 2 \log(x + y)$
2. $\frac{1}{2} \log(x + y) + \frac{2}{3} \log y$
3. $\frac{1}{2} \log(x + y) + \frac{2}{3} \log y$
4. $\frac{1}{2} \log(x + y) + \frac{2}{3} \log y$
- 5.1 $\log x + \frac{4}{3} \log y$
6. $\frac{1}{6} \log x - \frac{1}{6} \log(x + y)$
7. $\frac{3}{2} \log(x + y) + \log y$
8. $\frac{1}{3} \log x - \log y$
- 9.1 $\log x - \frac{3}{4} \log(x + y)$
- 10.1 $\log x - \frac{3}{4} \log(x + y)$
- 11.1 $\log x - \frac{3}{2} \log y$
- 12.1 $\log x - \frac{3}{2} \log y$

Document No. LEX3007011

1. $\frac{1}{6} \log x + \frac{1}{2} \log y$
2. $\frac{1}{6} \log x + \frac{1}{2} \log y$
3. $\frac{1}{6} \log x - \frac{1}{2} \log(x + y)$
4. $\frac{1}{6} \log x - \frac{1}{2} \log y$
5. $\frac{1}{6} \log x - \frac{1}{2} \log y$
6. $\frac{1}{6} \log x - \frac{1}{2} \log y$
7. $\frac{1}{3} \log x + \log y$
- 8.1 $\log(x + y) + \frac{1}{3} \log y$
- 9.1 $\log(x + y) + \frac{1}{3} \log y$
10. $\frac{1}{2} \log x - \frac{3}{4} \log y$
11. $\frac{5}{2} \log(x + y) + \log y$
12. $\frac{5}{2} \log x - \log(x + y)$

Document No. LEX3007012

1. $\frac{1}{2} \log(x + y) + \frac{1}{2} \log y$
2. $\log(x + y) + \frac{2}{5} \log y$
3. $\log(x + y) + \frac{2}{5} \log y$
4. $\log x - \log y$
5. $\log x - \log y$
6. $\frac{1}{3} \log x - \frac{5}{3} \log y$
- 7.1 $\log(x + y) + \frac{4}{3} \log y$
- 8.1 $\log(x + y) + \frac{4}{3} \log y$
- 9.1 $\log x - \frac{5}{4} \log y$
- 10.1 $\log x - \frac{5}{4} \log y$
11. $\frac{5}{2} \log x - \frac{5}{6} \log y$
- 12.1 $\log x - \log(x + y)$

Document No. LEX3007013

1. $\frac{1}{5} \log x - \frac{1}{5} \log y$
2. $\log(x + y) + \frac{3}{4} \log y$
3. $\log(x + y) + \frac{3}{4} \log y$
4. $\log(x + y) + \frac{3}{4} \log y$
5. $\log x + \frac{1}{2} \log y$
6. $\frac{1}{3} \log x + \frac{4}{3} \log y$
7. $\log x - \log y$
- 8.1 $\log x - \frac{5}{3} \log y$
- 9.2 $\log(x + y) + \log y$
10. $\frac{4}{5} \log x + \frac{4}{5} \log y$
- 11.1 $\log x - \log(x + y)$
12. $\frac{3}{4} \log x - \frac{3}{4} \log y$

Document No. LEX3007014

1. $\frac{3}{4} \log x - \frac{3}{4} \log y$
2. $\frac{1}{6} \log x - \frac{1}{3} \log y$
3. $\frac{1}{6} \log x - \frac{1}{3} \log y$
4. $\frac{1}{6} \log x + \frac{1}{5} \log y$
5. $\frac{5}{4} \log(x + y) + \frac{2}{3} \log y$

6. $\frac{1}{3} \log x - \frac{1}{2} \log y$
7. $\frac{1}{4} \log x - \frac{1}{5} \log(x + y)$
8. $\frac{1}{4} \log x + \frac{1}{2} \log y$
9. $\frac{1}{3} \log x - \frac{1}{5} \log y$
10. $\frac{1}{5} \log x - \frac{5}{4} \log y$
11. $\log x - \log y$
12. $\frac{1}{5} \log(x + y) + \log y$

Document No. LEX3007015

1. $\log(x + y) + \log y$
2. $\log(x + y) + \frac{1}{6} \log y$
3. $\log x - \frac{1}{2} \log(x + y)$
4. $\log x - \log y$
5. $\log x - \frac{3}{2} \log(x + y)$
6. $\log x - \frac{3}{2} \log(x + y)$
7. $\log(x + y) + \frac{5}{2} \log y$
8. $\log(x + y) + \log y$
9. $\log(x + y) + \frac{1}{2} \log y$
10. $\log(x + y) + \frac{5}{2} \log y$
11. $\frac{1}{5} \log x - \frac{1}{4} \log y$
12. $\frac{1}{5} \log x - \frac{1}{4} \log y$

Document No. LEX3007016

1. $\frac{1}{3} \log x - \frac{2}{3} \log y$
2. $\log x - \log y$
3. $\frac{2}{3} \log x - \frac{2}{3} \log y$
4. $\log x - \log y$
5. $\log x - \log(x + y)$
6. $\log x + \log y$
7. $\log x + \log y$
8. $\log x + \log y$
9. $\frac{1}{3} \log x + \frac{1}{2} \log y$
10. $\frac{1}{2} \log x + \frac{1}{2} \log y$
11. $\log(x + y) + \frac{1}{4} \log y$
12. $\log(x + y) + \frac{1}{4} \log y$

Document No. LEX3007017

1. $\frac{1}{6} \log x + \frac{1}{6} \log y$
2. $\frac{1}{6} \log x + \frac{1}{6} \log y$
3. $\log x - \log(x + y)$
4. $\log x - \log(x + y)$
5. $\frac{1}{6} \log x - \frac{1}{3} \log(x + y)$
6. $\frac{1}{3} \log x + \frac{1}{6} \log y$
7. $\log x - \log y$
8. $\log x - \log y$
9. $\log x - \log y$
10. $\log x - \log y$

11. $\log x - \log y$
12. $\frac{1}{5} \log(x + y) + \frac{1}{5} \log y$

Document No. LEX3007018

1. $\frac{1}{4} \log x - \log(x + y)$
2. $\log x - \frac{3}{4} \log(x + y)$
3. $\log(x + y) + \frac{1}{3} \log y$
4. $\log(x + y) + \frac{1}{3} \log y$
5. $\log x - \frac{3}{2} \log y$
6. $\log x - \frac{3}{2} \log y$
7. $\frac{1}{2} \log x - \frac{1}{2} \log y$
8. $\frac{1}{5} \log x - \frac{1}{2} \log(x + y)$
9. $\log(x + y) + \frac{1}{2} \log y$
10. $\frac{5}{6} \log x - \frac{5}{2} \log y$
11. $\frac{5}{6} \log x - \frac{5}{2} \log y$
12. $2 \log x - \frac{4}{5} \log y$

Document No. LEX3007019

1. $\frac{1}{6} \log x - \log(x + y)$
2. $\frac{1}{2} \log x - \frac{1}{2} \log y$
3. $\frac{1}{2} \log x - \frac{1}{2} \log y$
4. $\log(x + y) + \frac{1}{4} \log y$
5. $\frac{5}{3} \log x + \log y$
6. $\log(x + y) + \frac{5}{6} \log y$
7. $\frac{1}{2} \log(x + y) + \frac{5}{6} \log y$
8. $\log x - \frac{3}{2} \log(x + y)$
9. $\log(x + y) + \frac{5}{6} \log y$
10. $\frac{2}{5} \log x - \frac{1}{2} \log(x + y)$
11. $\log(x + y) + \frac{1}{3} \log y$
12. $\frac{1}{6} \log x + \frac{1}{4} \log y$

Document No. LEX3007020

1. $\frac{1}{6} \log x + \frac{1}{4} \log y$
2. $\frac{1}{6} \log x + \frac{1}{4} \log y$
3. $\frac{1}{6} \log x - \frac{1}{3} \log y$
4. $\log x + \frac{1}{3} \log y$
5. $\frac{1}{3} \log(x + y) + \frac{1}{5} \log y$
6. $\frac{1}{2} \log x - \frac{1}{3} \log y$
7. $\frac{1}{2} \log x - \frac{1}{3} \log y$
8. $\frac{1}{2} \log x - \frac{1}{3} \log y$
9. $\frac{1}{2} \log(x + y) + \frac{5}{6} \log y$
10. $\frac{1}{2} \log(x + y) + \frac{5}{6} \log y$
11. $\frac{5}{4} \log(x + y) + \log y$
12. $\frac{4}{5} \log(x + y) + \frac{2}{5} \log y$

Document No. LEX3007021

1. $\frac{4}{5} \log(x + y) + \frac{2}{5} \log y$

2. $\frac{5}{4}$ $\log x - \frac{1}{4} \log(x + y)$
3. $\frac{1}{3}$ $\log x - \frac{1}{3} \log y$
4. $\frac{1}{3}$ $\log x - \log y$
5. $\frac{1}{2}$ $\log x - \log y$
6. $\frac{1}{2}$ $\log x - \frac{1}{2} \log y$
7. $\frac{1}{3}$ $\log x + \log y$
8. $\frac{1}{2}$ $\log x - \frac{3}{2} \log(x + y)$
9. $\frac{1}{2}$ $\log x + \frac{1}{2} \log y$
- 10.1 $\log(x + y) + \frac{3}{2} \log y$
11. $\frac{1}{2}$ $\log x - \frac{1}{2} \log y$
12. $\frac{5}{2}$ $\log x - \frac{5}{3} \log y$

Document No. LEX3007022

1. $\frac{5}{3}$ $\log x - \frac{5}{3} \log y$
2. $\frac{1}{2}$ $\log(x + y) + \frac{3}{4} \log y$
3. $\frac{1}{3}$ $\log x - \frac{1}{2} \log(x + y)$
4. $\frac{1}{2}$ $\log x - \frac{1}{2} \log(x + y)$
5. $\frac{1}{2}$ $\log x - \frac{1}{2} \log y$
- 6.1 $\log(x + y) + \frac{5}{4} \log y$
7. $\frac{5}{3}$ $\log x - \frac{4}{3} \log(x + y)$
8. $\frac{1}{3}$ $\log x - \frac{4}{3} \log(x + y)$
9. $\frac{1}{6}$ $\log(x + y) + \frac{3}{4} \log y$
10. $\frac{1}{6}$ $\log(x + y) + \frac{3}{4} \log y$
11. $\frac{1}{3}$ $\log(x + y) + \frac{1}{4} \log y$
- 12.1 $\log x - \frac{1}{2} \log y$

Document No. LEX3007023

- 1.1 $\log x - \frac{1}{2} \log y$
- 2.1 $\log(x + y) + \frac{2}{3} \log y$
3. $\frac{1}{5}$ $\log x - \frac{1}{6} \log(x + y)$
4. $\frac{1}{5}$ $\log x - \log y$
5. $\frac{1}{4}$ $\log x - \log y$
6. $\frac{1}{4}$ $\log x - \log y$
- 7.1 $\log x - \log y$
- 8.2 $\log x + \log y$
- 9.1 $\log x + \frac{3}{3} \log y$
10. $\frac{4}{3}$ $\log x - 2 \log y$
11. $\frac{3}{2}$ $\log x - \frac{4}{3} \log(x + y)$
12. $\frac{2}{3}$ $\log x + \frac{1}{3} \log y$

Document No. LEX3007024

1. $\frac{1}{6}$ $\log x + \frac{1}{2} \log y$
- 2.1 $\log x - \log(x + y)$
3. $\frac{1}{6}$ $\log x + \log y$
- 4.1 $\log x - \log y$
5. $\frac{5}{4}$ $\log x - \log(x + y)$
6. $\frac{1}{6}$ $\log x - \frac{1}{2} \log(x + y)$

7. $\frac{5}{3}$ $\log x + \frac{5}{6} \log y$
- 8.1 $\log x + \frac{4}{3} \log y$
- 9.1 $\log x + \frac{4}{3} \log y$
- 10.1 $\log x + \frac{4}{3} \log y$
- 11.1 $\log x - \frac{4}{3} \log(x + y)$
12. $\frac{4}{5}$ $\log x + \log y$

Document No. LEX3007025

1. $\frac{5}{2}$ $\log x - \frac{5}{3} \log y$
2. $\frac{1}{2}$ $\log x - \frac{1}{3} \log y$
3. $\frac{1}{2}$ $\log(x + y) + \frac{1}{5} \log y$
4. $\frac{1}{2}$ $\log(x + y) + \frac{1}{5} \log y$
5. $\frac{1}{2}$ $\log x + \log y$
6. $\frac{1}{2}$ $\log x + \log y$
7. $\frac{1}{2}$ $\log x + \log y$
8. $\frac{1}{2}$ $\log x + \log y$
9. $\frac{1}{2}$ $\log x + \log y$
10. $\frac{1}{2}$ $\log x - \frac{3}{2} \log(x + y)$
11. $\frac{1}{2}$ $\log(x + y) + \frac{1}{5} \log y$
12. $\frac{1}{2}$ $\log(x + y) + \frac{1}{2} \log y$

Document No. LEX3007026

1. $\frac{2}{3}$ $\log x - 2 \log(x + y)$
- 2.2 $\log x + \frac{2}{3} \log y$
3. $\frac{2}{3}$ $\log(x + y) + \frac{3}{4} \log y$
4. $\frac{1}{3}$ $\log x - \frac{2}{3} \log y$
5. $\frac{1}{3}$ $\log x - \log y$
6. $\frac{1}{3}$ $\log x - \log(x + y)$
7. $\frac{1}{3}$ $\log x - \frac{1}{2} \log(x + y)$
8. $\frac{1}{3}$ $\log x - \log(x + y)$
- 9.1 $\log x + \frac{1}{2} \log y$
10. $\frac{1}{6}$ $\log x + \frac{1}{6} \log y$
11. $\frac{1}{2}$ $\log x - \log(x + y)$
12. $\frac{1}{3}$ $\log x + \frac{1}{2} \log y$

Document No. LEX3007027

1. $\frac{1}{3}$ $\log x + \frac{1}{2} \log y$
2. $\frac{1}{2}$ $\log x + \frac{1}{2} \log y$
3. $\frac{1}{3}$ $\log x + \frac{1}{2} \log y$
4. $\frac{1}{6}$ $\log x - \log(x + y)$
5. $\frac{5}{6}$ $\log x - \log y$
6. $\frac{1}{6}$ $\log x - \frac{1}{3} \log(x + y)$
7. $\frac{1}{6}$ $\log(x + y) + \frac{5}{6} \log y$
8. $\frac{1}{6}$ $\log(x + y) + \frac{5}{6} \log y$
9. $\frac{1}{6}$ $\log(x + y) + \frac{5}{6} \log y$
10. $\frac{2}{5}$ $\log(x + y) + \frac{5}{6} \log y$
11. $\frac{4}{3}$ $\log x - \log y$

$$12. \frac{4}{3} \log x - \log y$$

Document No. LEX3007028

1. $\frac{5}{3} \log x - \frac{1}{3} \log(x + y)$
2. $\frac{1}{3} \log x - \frac{1}{3} \log(x + y)$
3. $\log x + 2 \log y$
4. $\log x + 2 \log y$
5. $\log x + \frac{5}{4} \log y$
6. $\log x + \frac{5}{2} \log y$
7. $\log x - \log(x + y)$
8. $\log x - \log(x + y)$
9. $\log x - \log(x + y)$
10. $\log x - \log(x + y)$
11. $\log x + 2 \log y$
12. $\frac{4}{4} \log x - \frac{5}{3} \log y$

Document No. LEX3007029

- 1.1 $\log x + \log y$
- 2.1 $\log x + \log y$
- 3.1 $\log x + \log y$
- 4.1 $\log x + \log y$
5. $\frac{1}{2} \log x - \log y$
6. $\frac{1}{2} \log x - \frac{1}{3} \log y$
7. $\frac{1}{2} \log x - \frac{1}{3} \log y$
8. $\frac{1}{2} \log x - \frac{1}{3} \log y$
9. $\frac{1}{2} \log x - \frac{1}{3} \log y$
10. $\frac{5}{3} \log x + \frac{5}{2} \log y$
- 11.2 $\log(x + y) + \frac{1}{3} \log y$
- 12.2 $\log(x + y) + \frac{1}{3} \log y$

Document No. LEX3007030

1. $\frac{4}{3} \log(x + y) + \frac{2}{5} \log y$
2. $\log(x + y) + \frac{1}{5} \log y$
3. $\frac{1}{3} \log(x + y) + \frac{1}{5} \log y$
- 4.1 $\log x + \frac{3}{4} \log y$
5. $\frac{1}{2} \log x - \frac{1}{2} \log y$
- 6.2 $\log(x + y) + \frac{5}{6} \log y$
7. $\frac{2}{3} \log(x + y) + \frac{1}{2} \log y$
8. $\frac{2}{3} \log(x + y) + \frac{1}{2} \log y$
9. $\frac{1}{4} \log x - \frac{1}{6} \log(x + y)$
- 10.2 $\log(x + y) + \frac{1}{2} \log y$
- 11.1 $\log x - \frac{1}{2} \log y$
- 12.1 $\log x - \frac{1}{2} \log y$

Document No. LEX3007031

- 1.1 $\log x - \frac{1}{2} \log y$
- 2.1 $\log x - \frac{1}{2} \log y$

- 3.1 $\log(x + y) + \frac{5}{4} \log y$
- 4.1 $\log(x + y) + \frac{5}{4} \log y$
- 5.1 $\log(x + y) + \frac{5}{4} \log y$
6. $\frac{5}{4} \log x + \frac{5}{4} \log y$
7. $\frac{1}{5} \log(x + y) + \frac{3}{4} \log y$
8. $\frac{1}{2} \log x - \frac{1}{2} \log y$
9. $\frac{1}{2} \log x - \frac{1}{2} \log y$
10. $\frac{1}{2} \log(x + y) + \log y$
- 11.1 $\log(x + y) + \frac{5}{2} \log y$
- 12.1 $\log(x + y) + \frac{5}{2} \log y$

Document No. LEX3007032

- 1.1 $\log(x + y) + \frac{5}{2} \log y$
2. $\frac{1}{2} \log x + \frac{1}{3} \log y$
3. $\frac{1}{2} \log x + \frac{1}{3} \log y$
4. $\frac{1}{2} \log x - \frac{1}{3} \log y$
5. $\frac{1}{2} \log x + \frac{1}{3} \log y$
6. $\frac{1}{2} \log x + \frac{1}{3} \log y$
7. $\frac{1}{6} \log x - \frac{1}{2} \log y$
8. $\frac{1}{6} \log x - \frac{1}{2} \log y$
9. $\frac{5}{3} \log x - \frac{1}{3} \log(x + y)$
10. $\frac{5}{3} \log x - \frac{1}{3} \log(x + y)$
11. $\frac{5}{2} \log x - \frac{5}{2} \log y$
12. $\frac{5}{2} \log x - \frac{5}{2} \log y$

Document No. LEX3007033

- 1.1 $\log(x + y) + \frac{1}{4} \log y$
2. $\frac{1}{2} \log(x + y) + \frac{1}{4} \log y$
3. $\log(x + y) + \log y$
4. $\log(x + y) + \log y$
5. $\log(x + y) + \log y$
6. $\log(x + y) + \log y$
7. $\log(x + y) + \log y$
8. $\log(x + y) + \log y$
9. $\frac{5}{4} \log(x + y) + \log y$
10. $\frac{1}{2} \log(x + y) + \frac{1}{6} \log y$
- 11.1 $\log x + \frac{5}{6} \log y$
12. $\frac{5}{4} \log x + \frac{5}{4} \log y$

Document No. LEX3007034

1. $\frac{5}{6} \log(x + y) + \frac{5}{2} \log y$
2. $\frac{1}{3} \log x + \frac{2}{3} \log y$
- 3.1 $\log(x + y) + \frac{3}{4} \log y$
4. $\frac{2}{5} \log x - \log y$
5. $\frac{2}{5} \log x - \log y$
6. $\frac{3}{5} \log x - \frac{3}{4} \log(x + y)$
- 7.1 $\log(x + y) + \frac{1}{2} \log y$

8. $\frac{4}{3} \log x + \frac{4}{4} \log y$
9. $\frac{1}{3} \log x - \frac{1}{4} \log y$
10. $\frac{5}{3} \log x - \frac{5}{4} \log y$
11. $\frac{1}{3} \log x - \frac{1}{4} \log y$
12. $\frac{1}{3} \log x + \log y$

Document No. LEX3007035

1. $\frac{1}{5} \log x + \frac{5}{4} \log y$
2. $\log x + \frac{5}{3} \log y$
3. $\log x - \log y$
4. $\log x - \log y$
5. $\frac{1}{5} \log x - \frac{1}{5} \log y$
6. $1 \log(x + y) + \frac{2}{3} \log y$
7. $\frac{3}{4} \log x - \frac{3}{4} \log y$
8. $\frac{1}{4} \log x - \frac{1}{4} \log y$
9. $\frac{1}{4} \log x + \frac{1}{4} \log y$
10. $\frac{3}{4} \log x - \frac{3}{2} \log y$
11. $\frac{3}{2} \log x - \frac{3}{2} \log y$
12. $1 \log(x + y) + \log y$

Document No. LEX3007036

1. $1 \log(x + y) + \log y$
2. $1 \log(x + y) + \log y$
3. $\frac{2}{3} \log x - 2 \log(x + y)$
4. $\log x - 2 \log(x + y)$
5. $\log x - 2 \log y$
6. $\log x + \log y$
7. $\log x + \log y$
8. $\frac{1}{2} \log x - \frac{1}{2} \log(x + y)$
9. $\frac{1}{3} \log x - \log y$
10. $\frac{1}{3} \log x - \log y$
11. $\frac{1}{3} \log x - \log y$
12. $\frac{5}{6} \log x + \frac{5}{3} \log y$

Document No. LEX3007037

1. $2 \log(x + y) + \frac{2}{3} \log y$
2. $\frac{4}{3} \log x - \frac{1}{3} \log(x + y)$
3. $\log x - \log(x + y)$
4. $\frac{1}{2} \log x + \log y$
5. $\log x + \log y$
6. $\log(x + y) + \frac{1}{4} \log y$
7. $\log x - \frac{4}{5} \log(x + y)$
8. $\frac{5}{6} \log x - \frac{5}{5} \log(x + y)$
9. $1 \log(x + y) + \log y$
10. $\frac{2}{3} \log x - \frac{2}{3} \log y$
11. $\frac{1}{3} \log x - \frac{1}{3} \log y$
12. $\frac{4}{5} \log x - \frac{1}{2} \log(x + y)$

Document No. LEX3007038

1. $\frac{1}{5} \log x - \frac{1}{5} \log y$
2. $\frac{1}{5} \log x - \frac{1}{5} \log y$
3. $\log x - \log y$
4. $\log x - \log y$
5. $\log x - \frac{1}{2} \log(x + y)$
6. $\log x - \frac{1}{2} \log y$
7. $\log(x + y) + \log y$
8. $\log(x + y) + \frac{2}{5} \log y$
9. $\frac{1}{6} \log(x + y) + \frac{1}{5} \log y$
10. $\frac{1}{5} \log(x + y) + \frac{1}{5} \log y$
11. $\frac{3}{2} \log x - \log(x + y)$
12. $1 \log x - \log y$

Document No. LEX3007039

1. $\frac{1}{2} \log x - \frac{3}{4} \log y$
2. $\log x - \log y$
3. $\log x - \frac{1}{4} \log(x + y)$
4. $\log x - \log y$
5. $\log x + \log y$
6. $\log x + \log y$
7. $\log x + \log y$
8. $\log x - \log y$
9. $\frac{1}{2} \log x + \frac{1}{3} \log y$
10. $\frac{3}{2} \log(x + y) + \frac{1}{2} \log y$
11. $\frac{1}{2} \log(x + y) + \frac{1}{3} \log y$
12. $\frac{1}{2} \log(x + y) + \frac{1}{3} \log y$

Document No. LEX3007040

1. $\frac{1}{3} \log(x + y) + \log y$
2. $\frac{1}{2} \log x + \frac{1}{3} \log y$
3. $\log x - \log y$
4. $\log x - \frac{2}{3} \log(x + y)$
5. $1 \log x - \frac{1}{5} \log(x + y)$
6. $2 \log x - 2 \log y$
7. $1 \log x + \frac{3}{4} \log y$
8. $\frac{2}{3} \log x + \log y$
9. $\frac{1}{3} \log x + \frac{1}{5} \log y$
10. $\frac{1}{2} \log x + \frac{1}{2} \log y$
11. $1 \log(x + y) + \frac{4}{3} \log y$
12. $\frac{3}{4} \log x - \frac{1}{2} \log(x + y)$

Document No. LEX3007041

1. $\frac{1}{5} \log(x + y) + \frac{1}{6} \log y$
2. $\frac{1}{3} \log x - \frac{1}{3} \log y$
3. $\frac{1}{2} \log x + \frac{1}{2} \log y$

$$\begin{aligned}
&4.1 \log x + \frac{2}{5} \log y \\
&5. \frac{1}{3} \log x - \frac{4}{5} \log(x+y) \\
&6. \frac{1}{3} \log x + \frac{1}{3} \log y \\
&7. \frac{1}{5} \log(x+y) + \frac{1}{2} \log y \\
&8. \frac{1}{5} \log x - \log(x+y) \\
&9. \frac{1}{5} \log x - \frac{1}{2} \log(x+y) \\
&10.1 \log x - \frac{5}{6} \log(x+y) \\
&11.1 \log x - \frac{5}{6} \log(x+y) \\
&12. \frac{3}{4} \log(x+y) + \frac{3}{2} \log y
\end{aligned}$$

Document No. LEX3007042

$$\begin{aligned}
&1. \frac{1}{2} \log x - \frac{4}{3} \log(x+y) \\
&2. \frac{2}{3} \log x + \log y \\
&3.1 \log x + \frac{5}{4} \log y \\
&4.1 \log x + \frac{5}{4} \log y \\
&5.1 \log x + \frac{5}{4} \log y \\
&6. \frac{5}{6} \log(x+y) + \frac{4}{5} \log y \\
&7. \frac{1}{2} \log x - \log y \\
&8. \frac{1}{2} \log x - \log y \\
&9.1 \log x - \frac{1}{2} \log(x+y) \\
&10. \frac{5}{6} \log x - \frac{2}{3} \log(x+y) \\
&11. \frac{1}{2} \log x - \log(x+y) \\
&12. \frac{1}{2} \log x - \log(x+y)
\end{aligned}$$

Document No. LEX3007043

$$\begin{aligned}
&1.2 \log x - \log(x+y) \\
&2.2 \log x - \log(x+y) \\
&3. \frac{4}{3} \log x - \frac{2}{3} \log y \\
&4.1 \log x - 2 \log(x+y) \\
&5. \frac{2}{3} \log x + \frac{2}{3} \log y \\
&6. \log x + \log y \\
&7. \log x + \log y \\
&8. \log x + \log y \\
&9. \frac{1}{6} \log x - \frac{1}{6} \log(x+y) \\
&10. \frac{2}{3} \log(x+y) + \frac{1}{4} \log y \\
&11. \frac{4}{5} \log x + \frac{4}{5} \log y \\
&12. \frac{1}{5} \log x - \frac{4}{4} \log(x+y)
\end{aligned}$$

Document No. LEX3007044

$$\begin{aligned}
&1.1 \log(x+y) + \frac{3}{5} \log y \\
&2. \frac{5}{2} \log x - \log(x+y) \\
&3.1 \log x - \frac{2}{5} \log y \\
&4.1 \log x - \log y \\
&5. \frac{3}{4} \log x - \frac{1}{2} \log(x+y) \\
&6. \frac{3}{4} \log x - \frac{1}{2} \log(x+y) \\
&7. \frac{1}{3} \log x + \frac{1}{5} \log y \\
&8. \frac{1}{3} \log(x+y) + \frac{3}{4} \log y
\end{aligned}$$

$$\begin{aligned}
&9.1 \log(x+y) + \frac{3}{4} \log y \\
&10.1 \log(x+y) + \frac{3}{4} \log y \\
&11.1 \log(x+y) + \frac{3}{4} \log y \\
&12.1 \log x + \frac{2}{5} \log y
\end{aligned}$$

Document No. LEX3007045

$$\begin{aligned}
&1. \frac{1}{4} \log(x+y) + \log y \\
&2. \frac{4}{3} \log x - \log(x+y) \\
&3. \frac{4}{3} \log x - \log(x+y) \\
&4. \frac{4}{3} \log x - \log(x+y) \\
&5.1 \log x + \frac{1}{6} \log y \\
&6.1 \log x - \log y \\
&7.1 \log x + \log y \\
&8. \frac{5}{6} \log(x+y) + \frac{3}{5} \log y \\
&9.1 \log x - \frac{1}{3} \log(x+y) \\
&10. \frac{5}{6} \log x - \frac{5}{6} \log(x+y) \\
&11.1 \log(x+y) + \frac{3}{5} \log y \\
&12. \frac{3}{2} \log x - \log(x+y)
\end{aligned}$$

Document No. LEX3007046

$$\begin{aligned}
&1.2 \log x - \frac{1}{5} \log(x+y) \\
&2.2 \log x - \frac{1}{5} \log(x+y) \\
&3.2 \log x - \frac{1}{5} \log(x+y) \\
&4.2 \log x - \frac{1}{5} \log(x+y) \\
&5. \frac{4}{4} \log x - \frac{1}{4} \log(x+y) \\
&6. \frac{1}{3} \log x - \log(x+y) \\
&7. \frac{1}{3} \log x - \log y \\
&8. \frac{1}{3} \log x - \log y \\
&9.1 \log(x+y) + \frac{5}{4} \log y \\
&10. \frac{1}{2} \log x - \frac{3}{3} \log y \\
&11. \frac{1}{2} \log x - \log y \\
&12.1 \log x + \frac{1}{4} \log y
\end{aligned}$$

Document No. LEX3007047

$$\begin{aligned}
&1. \frac{1}{5} \log x - 2 \log(x+y) \\
&2. \log x - 2 \log(x+y) \\
&3. \log x - 2 \log(x+y) \\
&4. \log x + \log y \\
&5. \log x - \log y \\
&6. \log x - \log y \\
&7. \log x + \log y \\
&8. \log x + \log y \\
&9. \log x + \log y \\
&10. \log x + \log y \\
&11. \log x - \log(x+y) \\
&12. \frac{1}{3} \log x - \frac{1}{5} \log(x+y)
\end{aligned}$$

Document No. LEX3007048

1. $\frac{5}{3} \log x + \frac{5}{4} \log y$
2. $\frac{3}{4} \log x - \frac{1}{3} \log(x + y)$
3. $\frac{3}{4} \log x - \frac{1}{3} \log(x + y)$
4. $1 \log(x + y) + \log y$
5. $1 \log(x + y) + \log y$
6. $1 \log(x + y) + \log y$
7. $\frac{5}{4} \log(x + y) + \frac{5}{4} \log y$
8. $\frac{5}{4} \log x + \frac{5}{4} \log y$
9. $\frac{1}{3} \log x - \frac{1}{6} \log y$
10. $1 \log x + 2 \log y$
11. $1 \log x + 2 \log y$
12. $\frac{1}{2} \log(x + y) + \frac{5}{4} \log y$

Document No. LEX3007049

1. $\frac{1}{2} \log(x + y) + \frac{5}{4} \log y$
2. $\frac{3}{3} \log x + \frac{1}{2} \log y$
3. $\frac{1}{2} \log(x + y) + \frac{2}{3} \log y$
4. $1 \log(x + y) + \frac{1}{2} \log y$
5. $2 \log x - \log y$
6. $\frac{1}{3} \log x - \frac{4}{5} \log(x + y)$
7. $1 \log x - \frac{1}{2} \log(x + y)$
8. $1 \log x + \frac{1}{2} \log y$
9. $\frac{4}{3} \log x + 2 \log y$
10. $1 \log x + \frac{5}{4} \log y$
11. $2 \log x - 2 \log y$
12. $2 \log x - 2 \log y$

Document No. LEX3007050

1. $2 \log x - 2 \log y$
2. $\frac{3}{3} \log x + \frac{3}{3} \log y$
3. $\frac{3}{3} \log x + \frac{3}{3} \log y$
4. $\frac{3}{3} \log x + \frac{3}{3} \log y$
5. $\frac{1}{2} \log x - \frac{1}{2} \log y$
6. $\frac{3}{3} \log x - \frac{1}{3} \log(x + y)$
7. $\frac{3}{3} \log x - \frac{1}{3} \log(x + y)$
8. $\frac{3}{4} \log x - \log(x + y)$
9. $\frac{3}{4} \log x - \log(x + y)$
10. $\frac{5}{4} \log x - \log(x + y)$
11. $\frac{3}{3} \log(x + y) + \frac{2}{5} \log y$
12. $\frac{3}{3} \log(x + y) + \frac{2}{5} \log y$

Document No. LEX3007051

1. $\frac{1}{6} \log(x + y) + \log y$
2. $\frac{1}{5} \log x + \frac{1}{5} \log y$
3. $\frac{1}{5} \log x - \frac{1}{5} \log y$
4. $\frac{3}{5} \log x + \frac{3}{5} \log y$

5. $\frac{1}{2} \log x - \frac{1}{2} \log y$
6. $\frac{1}{2} \log x - \frac{1}{2} \log y$
7. $\frac{1}{2} \log x - \frac{1}{2} \log y$
8. $\frac{1}{5} \log(x + y) + \frac{1}{6} \log y$
9. $\frac{3}{4} \log x - \frac{1}{3} \log(x + y)$
10. $\frac{3}{4} \log x + \log y$
11. $1 \log x - \frac{2}{3} \log(x + y)$
12. $\frac{2}{3} \log x - \frac{2}{3} \log y$

Document No. LEX3007052

1. $\frac{3}{2} \log x + \frac{1}{2} \log y$
2. $\frac{3}{2} \log x + \frac{1}{2} \log y$
3. $1 \log(x + y) + \frac{5}{6} \log y$
4. $2 \log x - \frac{2}{5} \log(x + y)$
5. $1 \log x + \log y$
6. $\frac{1}{2} \log x - \log y$
7. $\frac{1}{2} \log x + \frac{1}{2} \log y$
8. $\frac{1}{2} \log x + \frac{1}{2} \log y$
9. $1 \log x + \frac{5}{3} \log y$
10. $\frac{4}{5} \log(x + y) + \log y$
11. $\frac{3}{3} \log x - \frac{1}{6} \log(x + y)$
12. $\frac{1}{3} \log x - \frac{1}{3} \log y$

Document No. LEX3007053

1. $\frac{1}{3} \log(x + y) + \log y$
2. $\frac{1}{3} \log(x + y) + \log y$
3. $\frac{1}{5} \log x - \frac{1}{4} \log y$
4. $\frac{1}{4} \log x + \frac{1}{2} \log y$
5. $\frac{3}{2} \log x + \frac{3}{2} \log y$
6. $\frac{1}{2} \log x - \frac{3}{2} \log y$
7. $1 \log x - \frac{4}{5} \log y$
8. $\frac{2}{5} \log x + \frac{1}{3} \log y$
9. $1 \log x + \frac{1}{2} \log y$
10. $\frac{1}{2} \log x - \frac{1}{6} \log y$
11. $\frac{1}{2} \log x - \frac{1}{6} \log y$
12. $\frac{5}{2} \log(x + y) + \frac{3}{2} \log y$

Document No. LEX3007054

1. $\frac{5}{2} \log(x + y) + \frac{3}{2} \log y$
2. $\frac{4}{4} \log x + \frac{4}{3} \log y$
3. $\frac{3}{3} \log x - \log y$
4. $\frac{1}{5} \log x - \frac{1}{2} \log y$
5. $\frac{1}{5} \log x - \frac{1}{2} \log y$
6. $\frac{1}{4} \log x - \frac{1}{6} \log y$
7. $\frac{1}{4} \log x - \frac{1}{6} \log y$
8. $\frac{3}{5} \log(x + y) + \log y$
9. $\frac{1}{5} \log(x + y) + \frac{4}{3} \log y$

10. $\frac{1}{5} \log(x + y) + \frac{4}{3} \log y$
11. $\frac{1}{5} \log(x + y) + \frac{4}{3} \log y$
12. $\frac{4}{5} \log x - \log y$

Document No. LEX3007055

1. $2 \log x + \frac{4}{3} \log y$
2. $\frac{5}{3} \log x + \frac{2}{3} \log y$
3. $\log x - \log y$
4. $\frac{4}{4} \log x - \log y$
5. $1 \log x + \frac{2}{3} \log y$
6. $\frac{4}{5} \log x - \frac{2}{3} \log(x + y)$
7. $\frac{1}{6} \log x - \frac{1}{6} \log y$
8. $\frac{1}{2} \log x - \frac{2}{3} \log y$
9. $1 \log(x + y) + \log y$
10. $\frac{3}{4} \log x + \frac{3}{2} \log y$
11. $\frac{1}{2} \log x - \frac{1}{5} \log y$
12. $\frac{1}{2} \log x - \frac{1}{5} \log y$

Document No. LEX3007056

1. $\frac{1}{5} \log x - \frac{1}{5} \log y$
2. $\log(x + y) + \frac{5}{6} \log y$
3. $\log(x + y) + \frac{5}{6} \log y$
4. $\log(x + y) + \frac{5}{6} \log y$
5. $\log(x + y) + \frac{2}{3} \log y$
6. $\log x - \log(x + y)$
7. $\log x - \log(x + y)$
8. $\log x - \log(x + y)$
9. $\log x - \frac{5}{6} \log(x + y)$
10. $\frac{4}{5} \log x - \frac{5}{6} \log(x + y)$
11. $\frac{4}{5} \log x - \frac{5}{6} \log(x + y)$
12. $1 \log x - \frac{2}{5} \log y$

Document No. LEX3007057

1. $\frac{3}{2} \log x + \frac{3}{4} \log y$
2. $1 \log x + \frac{2}{3} \log y$
3. $1 \log(x + y) + \frac{5}{3} \log y$
4. $2 \log x - 2 \log y$
5. $1 \log x - \log y$
6. $\frac{1}{6} \log x - \frac{1}{3} \log y$
7. $1 \log x - \log(x + y)$
8. $\frac{5}{6} \log x - \frac{2}{3} \log(x + y)$
9. $\frac{1}{3} \log x - \frac{1}{3} \log(x + y)$
10. $\frac{1}{3} \log x - \frac{1}{3} \log(x + y)$
11. $\frac{2}{3} \log(x + y) + \log y$
12. $\frac{2}{3} \log(x + y) + \log y$

Document No. LEX3007058

1. $1 \log x - \frac{2}{3} \log(x + y)$
2. $1 \log x - \frac{2}{3} \log(x + y)$
3. $1 \log x - \frac{2}{3} \log(x + y)$
4. $1 \log x - \frac{2}{3} \log(x + y)$
5. $\frac{4}{3} \log x + \log y$
6. $1 \log x - \frac{1}{3} \log(x + y)$
7. $1 \log x - \frac{1}{3} \log(x + y)$
8. $2 \log x - \log y$
9. $2 \log x - \frac{4}{3} \log(x + y)$
10. $2 \log x - \frac{4}{3} \log(x + y)$
11. $2 \log x - \frac{4}{3} \log(x + y)$
12. $\frac{4}{3} \log(x + y) + \frac{4}{3} \log y$

Document No. LEX3007059

1. $\frac{1}{2} \log x - \log y$
2. $\frac{5}{4} \log(x + y) + \log y$
3. $\frac{5}{4} \log(x + y) + \log y$
4. $\frac{5}{4} \log(x + y) + \log y$
5. $\frac{5}{6} \log x - \frac{2}{5} \log(x + y)$
6. $\frac{1}{2} \log x - 2 \log(x + y)$
7. $\frac{1}{3} \log x - \frac{1}{3} \log(x + y)$
8. $\frac{1}{2} \log x - \log(x + y)$
9. $1 \log(x + y) + \frac{1}{3} \log y$
10. $\frac{1}{2} \log x + \frac{1}{3} \log y$
11. $\frac{1}{2} \log x + \frac{1}{2} \log y$
12. $\frac{2}{3} \log x - \frac{5}{3} \log(x + y)$

Document No. LEX3007060

1. $1 \log x - \frac{4}{5} \log(x + y)$
2. $\frac{4}{3} \log x - \frac{4}{3} \log y$
3. $\frac{2}{3} \log x - \frac{4}{3} \log y$
4. $\frac{1}{6} \log(x + y) + \frac{2}{3} \log y$
5. $\frac{5}{6} \log x - \frac{5}{3} \log y$
6. $2 \log(x + y) + \frac{3}{5} \log y$
7. $\frac{1}{4} \log(x + y) + \frac{1}{2} \log y$
8. $\frac{1}{4} \log(x + y) + \frac{1}{2} \log y$
9. $\frac{5}{3} \log x - \frac{1}{5} \log(x + y)$
10. $1 \log x - \frac{1}{5} \log(x + y)$
11. $1 \log x - \frac{1}{5} \log(x + y)$
12. $1 \log x - \frac{1}{5} \log(x + y)$

Document No. LEX3007061

1. $1 \log x - \frac{1}{5} \log(x + y)$
2. $\frac{4}{5} \log(x + y) + \frac{1}{3} \log y$
3. $\frac{5}{2} \log x - \frac{5}{3} \log y$
4. $\log x - \frac{5}{3} \log y$
5. $\frac{3}{4} \log x - \frac{5}{2} \log(x + y)$

6. $\frac{3}{4}$ $\log x - \frac{5}{2} \log(x + y)$
7. $\frac{1}{4}$ $\log x - \frac{5}{2} \log(x + y)$
8. $\frac{1}{2}$ $\log x - \log y$
- 9.1 $\log(x + y) + \frac{1}{3} \log y$
- 10.1 $\log(x + y) + \frac{1}{3} \log y$
- 11.1 $\log(x + y) + \frac{1}{3} \log y$
12. $\frac{1}{3}$ $\log x - \frac{1}{2} \log(x + y)$

Document No. LEX3007062

- 1.1 $\log x + \frac{1}{2} \log y$
2. $\frac{4}{3}$ $\log x - \frac{5}{6} \log(x + y)$
3. $\frac{1}{3}$ $\log(x + y) + \frac{1}{3} \log y$
4. $\frac{1}{2}$ $\log(x + y) + \log y$
- 5.1 $\log(x + y) + \log y$
- 6.2 $\log(x + y) + \log y$
7. $\frac{1}{3}$ $\log(x + y) + \log y$
8. $\frac{1}{4}$ $\log x - \frac{5}{6} \log(x + y)$
9. $\frac{1}{4}$ $\log x - \frac{1}{2} \log(x + y)$
10. $\frac{1}{3}$ $\log x - \log y$
11. $\frac{1}{3}$ $\log x - \frac{2}{3} \log(x + y)$
12. $\frac{1}{3}$ $\log x - \frac{1}{4} \log(x + y)$

Document No. LEX3007063

- 1.1 $\log x + \frac{4}{3} \log y$
2. $\frac{1}{2}$ $\log x + \frac{2}{3} \log y$
3. $\frac{1}{3}$ $\log x + \frac{2}{3} \log y$
4. $\frac{1}{2}$ $\log(x + y) + \frac{2}{3} \log y$
5. $\frac{1}{3}$ $\log(x + y) + \log y$
- 6.1 $\log x - \frac{5}{6} \log y$
7. $\frac{1}{6}$ $\log x - \frac{5}{6} \log(x + y)$
8. $\frac{1}{3}$ $\log x - \frac{3}{2} \log(x + y)$
9. $\frac{1}{5}$ $\log(x + y) + \frac{4}{3} \log y$
10. $\frac{1}{3}$ $\log x - \log(x + y)$
11. $\frac{1}{4}$ $\log x + \frac{3}{5} \log y$
- 12.1 $\log(x + y) + \frac{3}{4} \log y$

Document No. LEX3007064

1. $\frac{1}{5}$ $\log x + \frac{1}{2} \log y$
2. $\frac{1}{5}$ $\log x + \frac{1}{2} \log y$
3. $\frac{1}{5}$ $\log x + \frac{1}{2} \log y$
4. $\frac{1}{4}$ $\log x - \log y$
5. $\frac{1}{3}$ $\log x + \frac{1}{2} \log y$
6. $\frac{1}{4}$ $\log x + \log y$
7. $\frac{1}{4}$ $\log x + \frac{1}{2} \log y$
- 8.2 $\log x + \log y$
- 9.2 $\log x + \frac{4}{3} \log y$
10. $\frac{1}{4}$ $\log x + \frac{1}{2} \log y$

11. $\frac{3}{4}$ $\log x - \frac{5}{3} \log(x + y)$
12. $\frac{3}{4}$ $\log x - \frac{5}{3} \log(x + y)$

Document No. LEX3007065

1. $\frac{3}{2}$ $\log x - \frac{5}{3} \log(x + y)$
2. $\frac{1}{2}$ $\log x - \log y$
- 3.1 $\log(x + y) + \frac{4}{5} \log y$
4. $\frac{5}{6}$ $\log(x + y) + \frac{1}{2} \log y$
5. $\frac{5}{6}$ $\log x - 2 \log(x + y)$
- 6.1 $\log x + \frac{1}{2} \log y$
7. $\frac{2}{3}$ $\log x - \log(x + y)$
8. $\frac{1}{3}$ $\log x - \frac{3}{5} \log y$
9. $\frac{1}{4}$ $\log x - \log y$
10. $\frac{3}{4}$ $\log(x + y) + \frac{1}{3} \log y$
11. $\frac{1}{2}$ $\log(x + y) + \log y$
12. $\frac{1}{2}$ $\log(x + y) + \log y$

Document No. LEX3007066

1. $\frac{1}{2}$ $\log(x + y) + \log y$
2. $\frac{1}{2}$ $\log(x + y) + \log y$
3. $\frac{5}{3}$ $\log x - \log y$
- 4.1 $\log x - 2 \log y$
5. $\frac{5}{6}$ $\log x - \frac{1}{2} \log(x + y)$
6. $\frac{4}{3}$ $\log x - \frac{1}{6} \log(x + y)$
7. $\frac{4}{3}$ $\log x - \frac{1}{6} \log(x + y)$
8. $\frac{4}{3}$ $\log x - \frac{1}{6} \log(x + y)$
9. $\frac{1}{4}$ $\log x + \log y$
10. $\frac{1}{3}$ $\log(x + y) + \frac{1}{2} \log y$
11. $\frac{1}{3}$ $\log(x + y) + \frac{1}{2} \log y$
- 12.1 $\log x + \frac{5}{2} \log y$

Document No. LEX3007067

1. $\frac{3}{2}$ $\log x - \frac{3}{2} \log y$
2. $\frac{1}{2}$ $\log x - \log y$
3. $\frac{1}{2}$ $\log x - \log y$
4. $\frac{1}{5}$ $\log x - \log y$
- 5.1 $\log x - \frac{4}{3} \log y$
6. $\frac{1}{2}$ $\log x + \log y$
7. $\frac{1}{4}$ $\log x - \frac{1}{3} \log(x + y)$
8. $\frac{1}{4}$ $\log x - \log(x + y)$
9. $\frac{1}{3}$ $\log x - \log y$
10. $\frac{2}{3}$ $\log x - \frac{2}{3} \log y$
11. $\frac{5}{3}$ $\log x - \frac{1}{3} \log(x + y)$
12. $\frac{4}{3}$ $\log(x + y) + \frac{1}{2} \log y$

Document No. LEX3007068

1. $\frac{2}{3}$ $\log(x + y) + \frac{1}{2} \log y$

2. $\frac{1}{2} \log x + \frac{1}{3} \log y$
3. $\frac{1}{2} \log x + \frac{1}{3} \log y$
4. $\frac{2}{3} \log(x + y) + \frac{5}{6} \log y$
5. $\frac{1}{3} \log x - \frac{1}{3} \log(x + y)$
6. $2 \log x - \log(x + y)$
7. $2 \log x - \log(x + y)$
8. $\frac{1}{2} \log x + \frac{1}{6} \log y$
9. $\frac{1}{2} \log x + \frac{1}{6} \log y$
10. $1 \log x - \frac{1}{5} \log(x + y)$
11. $\frac{1}{3} \log x - \log(x + y)$
12. $\frac{5}{2} \log(x + y) + \frac{1}{5} \log y$

Document No. LEX3007069

1. $\frac{5}{2} \log(x + y) + \frac{1}{5} \log y$
2. $\frac{2}{3} \log x - \frac{1}{5} \log(x + y)$
3. $\frac{2}{3} \log x - \frac{1}{5} \log(x + y)$
4. $1 \log(x + y) + \frac{3}{5} \log y$
5. $\frac{4}{3} \log(x + y) + \frac{2}{3} \log y$
6. $\log x + \frac{3}{2} \log y$
7. $\frac{2}{3} \log x - \frac{1}{3} \log y$
8. $\frac{1}{6} \log x + \frac{1}{6} \log y$
9. $\frac{1}{6} \log x + \frac{1}{6} \log y$
10. $1 \log x + \log y$
11. $1 \log(x + y) + \frac{5}{4} \log y$
12. $1 \log x - \frac{2}{5} \log y$

Document No. LEX3007070

1. $1 \log x - \frac{2}{5} \log y$
2. $\frac{4}{3} \log x - \frac{2}{3} \log y$
3. $1 \log x - \frac{5}{2} \log y$
4. $\frac{5}{6} \log x - \frac{1}{6} \log(x + y)$
5. $\frac{5}{6} \log x - \frac{1}{6} \log(x + y)$
6. $\frac{1}{4} \log x + \frac{1}{2} \log y$
7. $\frac{1}{4} \log x + \frac{1}{2} \log y$
8. $\frac{5}{2} \log(x + y) + \log y$
9. $1 \log x - \frac{1}{3} \log y$
10. $1 \log x - \frac{1}{3} \log y$
11. $\frac{2}{3} \log x + \log y$
12. $\frac{1}{2} \log x + \frac{5}{5} \log y$

Document No. LEX3007071

1. $\frac{1}{5} \log(x + y) + \frac{1}{2} \log y$
2. $\log x + \frac{5}{4} \log y$
3. $\log x + \frac{5}{4} \log y$
4. $\log x + \log y$
5. $\log x + \frac{5}{4} \log y$
6. $\frac{3}{4} \log(x + y) + \frac{5}{4} \log y$

7. $\frac{3}{4} \log(x + y) + \frac{5}{4} \log y$
8. $\frac{1}{4} \log(x + y) + \frac{1}{2} \log y$
9. $\log(x + y) + \frac{1}{2} \log y$
10. $2 \log x + \frac{2}{3} \log y$
11. $\frac{1}{2} \log x + \frac{1}{3} \log y$
12. $\frac{1}{4} \log x - \frac{1}{2} \log y$

Document No. LEX3007072

1. $\frac{1}{4} \log x - \frac{1}{2} \log y$
2. $\frac{1}{6} \log x + \frac{1}{5} \log y$
3. $\log x - \log(x + y)$
4. $\frac{3}{4} \log x - \log(x + y)$
5. $\log x - \log y$
6. $\frac{5}{4} \log x - \log y$
7. $\frac{5}{4} \log x - \log y$
8. $1 \log x - 2 \log y$
9. $\frac{2}{3} \log x - \log y$
10. $\frac{1}{3} \log(x + y) + \frac{2}{5} \log y$
11. $\log(x + y) + \frac{1}{2} \log y$
12. $\frac{5}{6} \log x - \frac{3}{5} \log(x + y)$

Document No. LEX3007073

1. $\frac{2}{5} \log x - \frac{1}{2} \log(x + y)$
2. $\frac{1}{5} \log(x + y) + \log y$
3. $\frac{2}{3} \log(x + y) + \log y$
4. $1 \log(x + y) + \frac{2}{5} \log y$
5. $\frac{1}{2} \log(x + y) + \frac{5}{2} \log y$
6. $2 \log x + \log y$
7. $2 \log x + \log y$
8. $2 \log x + \log y$
9. $2 \log x + \log y$
10. $2 \log x + \log y$
11. $2 \log x + \log y$
12. $\frac{2}{5} \log x - \frac{5}{3} \log(x + y)$

Document No. LEX3007074

1. $\frac{2}{5} \log x - \frac{5}{3} \log(x + y)$
2. $\frac{4}{3} \log(x + y) + \frac{5}{2} \log y$
3. $\frac{3}{4} \log(x + y) + \log y$
4. $\frac{1}{5} \log(x + y) + \log y$
5. $\frac{1}{2} \log x + \frac{1}{5} \log y$
6. $\frac{1}{4} \log x + \frac{1}{3} \log y$
7. $\frac{1}{4} \log x + \frac{1}{3} \log y$
8. $1 \log x - \frac{1}{6} \log(x + y)$
9. $\frac{1}{2} \log x - \frac{3}{5} \log y$
10. $\frac{1}{4} \log x + \frac{1}{2} \log y$
11. $\frac{1}{3} \log x - \frac{1}{5} \log y$

$$12.1 \log x - \frac{5}{4} \log y$$

Document No. LEX3007075

1. $\frac{4}{3} \log x - \frac{4}{3} \log y$
2. $\frac{4}{3} \log x - \frac{4}{3} \log y$
3. $\log x - \log y$
4. $\frac{1}{2} \log x - \log(x + y)$
5. $\log x + \log y$
6. $\log x - \log(x + y)$
7. $\log x - \log(x + y)$
8. $\log x + \log y$
9. $1 \log x - \log y$
10. $\frac{1}{2} \log(x + y) + \frac{5}{6} \log y$
11. $\frac{3}{4} \log x - \frac{1}{2} \log y$
12. $1 \log x - \frac{4}{4} \log y$

Document No. LEX3007076

1. $\frac{4}{3} \log(x + y) + \log y$
2. $\frac{1}{6} \log x + \frac{1}{2} \log y$
3. $\frac{1}{6} \log x + \frac{1}{2} \log y$
4. $\log x + \log y$
5. $\log x - \log(x + y)$
6. $\log x - \log(x + y)$
7. $2 \log(x + y) + \frac{2}{5} \log y$
8. $\log x + \log y$
9. $\log x - \log(x + y)$
10. $\frac{1}{2} \log x - \log y$
11. $1 \log x - \log y$
12. $1 \log x - \log y$

Document No. LEX3007077

1. $\frac{1}{6} \log x - \frac{1}{2} \log y$
2. $\frac{1}{6} \log x - \frac{1}{2} \log y$
3. $1 \log x - \frac{2}{3} \log y$
4. $\frac{1}{2} \log(x + y) + 2 \log y$
5. $\frac{1}{2} \log(x + y) + 2 \log y$
6. $\frac{2}{3} \log(x + y) + \frac{1}{2} \log y$
7. $1 \log x + \frac{2}{3} \log y$
8. $\frac{1}{6} \log x - \frac{1}{2} \log(x + y)$
9. $\frac{5}{2} \log(x + y) + \log y$
10. $\frac{1}{2} \log x - \frac{5}{2} \log(x + y)$
11. $\frac{1}{2} \log x - \log(x + y)$
12. $\frac{1}{2} \log x - \frac{1}{2} \log(x + y)$

Document No. LEX3007078

1. $\frac{1}{5} \log x + \frac{3}{5} \log y$
2. $\frac{3}{5} \log x - \log(x + y)$

3. $\log x - \log(x + y)$
4. $\log x - \log(x + y)$
5. $\log x + \log y$
6. $\log x + \log y$
7. $\log x + \log y$
8. $\log x + \log y$
9. $\log x - \log y$
10. $\log x - \log(x + y)$
11. $\log x - \log(x + y)$
12. $1 \log x - \log y$

Document No. LEX3007079

1. $\log x - \log(x + y)$
2. $\log x + \frac{3}{4} \log y$
3. $1 \log x - \log(x + y)$
4. $\log(x + y) + \frac{2}{3} \log y$
5. $\log x - \log(x + y)$
6. $\log x - \log(x + y)$
7. $1 \log x + \log y$
8. $1 \log x + \log y$
9. $\frac{1}{2} \log x + \log y$
10. $\log x + \log y$
11. $1 \log x - \log y$
12. $1 \log x - \log y$

Document No. LEX3007080

1. $\log x - \frac{4}{3} \log(x + y)$
2. $\log x - \log(x + y)$
3. $\log x - \log(x + y)$
4. $\log(x + y) + \frac{2}{3} \log y$
5. $\log x - \frac{1}{4} \log y$
6. $\log x - \frac{1}{4} \log y$
7. $1 \log x - \log y$
8. $\frac{4}{5} \log(x + y) + \frac{1}{2} \log y$
9. $\log x - \log(x + y)$
10. $\log x - \log(x + y)$
11. $\log x - \log(x + y)$
12. $\log x + \log y$

Document No. LEX3007081

1. $\log x + \log y$
2. $\log x + \log y$
3. $\log x + \log y$
4. $2 \log(x + y) + \log y$
5. $2 \log(x + y) + \log y$
6. $\log x - \log y$
7. $\log x - \log(x + y)$

8. $\frac{1}{2} \log x - \frac{1}{2} \log(x + y)$
9. $\frac{1}{2} \log x - \frac{1}{2} \log(x + y)$
10. $\frac{1}{2} \log x - \frac{1}{6} \log y$
11. $\frac{1}{5} \log x - \frac{1}{5} \log y$
12. $\frac{1}{5} \log x - \frac{1}{2} \log(x + y)$

Document No. LEX3007082

1. $2 \log(x + y) + \log y$
2. $2 \log(x + y) + \log y$
3. $2 \log(x + y) + \log y$
4. $2 \log(x + y) + \log y$
5. $\frac{1}{3} \log x - \frac{5}{4} \log(x + y)$
6. $\log x - \frac{5}{4} \log(x + y)$
7. $\log(x + y) + \frac{1}{4} \log y$
8. $\log(x + y) + \frac{1}{4} \log y$
9. $\log x - \frac{2}{3} \log y$
10. $\frac{4}{3} \log x - \frac{2}{3} \log y$
11. $\log x - \log y$
12. $\frac{1}{6} \log x - \frac{2}{3} \log(x + y)$

Document No. LEX3007083

1. $\frac{1}{3} \log x - \frac{2}{3} \log(x + y)$
2. $\log x + \frac{1}{2} \log y$
3. $\log(x + y) + \frac{1}{3} \log y$
4. $\log(x + y) + \frac{1}{3} \log y$
5. $1 \log(x + y) + \frac{5}{3} \log y$
6. $1 \log x - \frac{5}{3} \log(x + y)$
7. $1 \log x + 2 \log y$
8. $1 \log x + \frac{3}{4} \log y$
9. $1 \log x + \frac{3}{4} \log y$
10. $\frac{3}{2} \log x + \frac{1}{2} \log y$
11. $\frac{3}{2} \log x + \frac{1}{2} \log y$
12. $1 \log(x + y) + \frac{2}{3} \log y$

Document No. LEX3007084

1. $1 \log(x + y) + \frac{2}{3} \log y$
2. $\frac{1}{5} \log x - \frac{2}{5} \log(x + y)$
3. $\log x - \log(x + y)$
4. $\frac{1}{5} \log x + \log y$
5. $1 \log x - \log y$
6. $1 \log x - \frac{5}{4} \log y$
7. $\frac{3}{4} \log(x + y) + \frac{1}{3} \log y$
8. $\log(x + y) + \frac{1}{3} \log y$
9. $\frac{1}{5} \log x - \frac{1}{2} \log(x + y)$
10. $\frac{2}{5} \log x - \frac{1}{2} \log(x + y)$
11. $\frac{1}{5} \log x - \frac{2}{5} \log(x + y)$
12. $\frac{1}{5} \log x - \frac{2}{4} \log(x + y)$

Document No. LEX3007085

1. $\frac{1}{6} \log x - \frac{1}{3} \log y$
2. $\frac{4}{5} \log x - 2 \log y$
3. $\frac{4}{5} \log x - 2 \log y$
4. $\frac{4}{5} \log x - 2 \log y$
5. $1 \log x - \frac{1}{6} \log(x + y)$
6. $\frac{1}{2} \log x - \frac{1}{6} \log(x + y)$
7. $\frac{1}{2} \log x + \frac{1}{3} \log y$
8. $\frac{1}{2} \log x + \frac{1}{3} \log y$
9. $1 \log(x + y) + \frac{1}{6} \log y$
10. $1 \log(x + y) + \frac{1}{6} \log y$
11. $1 \log x - \log(x + y)$
12. $1 \log(x + y) + \frac{5}{3} \log y$

Document No. LEX3007086

1. $1 \log(x + y) + \frac{5}{3} \log y$
2. $\frac{1}{3} \log x - \log y$
3. $\frac{1}{5} \log x + \frac{1}{3} \log y$
4. $1 \log x + \log y$
5. $1 \log x + \log y$
6. $1 \log x + \log y$
7. $\frac{1}{3} \log x - \frac{1}{2} \log y$
8. $\log x - \frac{1}{6} \log y$
9. $\log x - \frac{1}{2} \log y$
10. $\frac{1}{2} \log x + \log y$
11. $\frac{3}{2} \log x - \frac{1}{2} \log(x + y)$
12. $\frac{4}{2} \log x - \frac{5}{4} \log y$

Document No. LEX3007087

1. $\frac{2}{2} \log x + \frac{1}{3} \log y$
2. $\frac{2}{2} \log x + \frac{1}{2} \log y$
3. $\frac{1}{2} \log(x + y) + \frac{1}{3} \log y$
4. $\frac{1}{2} \log x - \frac{1}{3} \log(x + y)$
5. $\log x + \frac{1}{3} \log y$
6. $\frac{1}{2} \log x - \log y$
7. $\frac{1}{5} \log x + \frac{5}{3} \log y$
8. $\log x + \log y$
9. $\frac{1}{2} \log x - \frac{1}{2} \log(x + y)$
10. $\frac{3}{2} \log x - \frac{1}{2} \log(x + y)$
11. $\frac{1}{2} \log x - \frac{2}{3} \log(x + y)$
12. $\frac{1}{2} \log x - \frac{2}{3} \log(x + y)$

Document No. LEX3007088

1. $\frac{4}{5} \log x + 2 \log y$
2. $1 \log x + \frac{3}{5} \log y$
3. $1 \log x + \frac{2}{2} \log y$

4. $\log(x + y) + \log y$
5. $\log x - \frac{4}{3} \log(x + y)$
6. $\log x - \frac{4}{3} \log(x + y)$
7. $\log x - \log y$
8. $\log x - \log y$
9. $\log x - \log y$
10. $\log x - \frac{5}{2} \log y$
11. $\log(x + y) + \frac{1}{2} \log y$
12. $\log(x + y) + \frac{1}{2} \log y$

Document No. LEX3007089

1. $\log x - \frac{1}{3} \log(x + y)$
2. $\log x - \frac{1}{3} \log(x + y)$
3. $\log x - \frac{1}{3} \log(x + y)$
4. $\log x + \log y$
5. $\log x + \log y$
6. $\log x + \log y$
7. $\log x - \log(x + y)$
8. $\log x - \log(x + y)$
9. $\log x - \log(x + y)$
10. $\log x - \frac{1}{3} \log y$
11. $\log x - \log(x + y)$
12. $\log x - \log(x + y)$

Document No. LEX3007090

1. $\log(x + y) + \frac{3}{2} \log y$
2. $\log x - \frac{5}{4} \log y$
3. $\log x + \log y$
4. $\log(x + y) + \frac{5}{3} \log y$
5. $\log(x + y) + \frac{5}{3} \log y$
6. $\log(x + y) + \frac{5}{3} \log y$
7. $\log x - \log(x + y)$
8. $\log x - \log y$
9. $\log x - \frac{1}{4} \log y$
10. $\log x + \frac{4}{5} \log y$
11. $\log x + \frac{4}{5} \log y$
12. $\log x + \log y$

Document No. LEX3007091

1. $\log x - \frac{1}{3} \log y$
2. $\log(x + y) + \frac{1}{3} \log y$
3. $\log x + \frac{1}{4} \log y$
4. $\log x - \log y$
5. $\log x + \log y$
6. $\log x - \log y$
7. $\log x - \frac{3}{4} \log(x + y)$
8. $\log(x + y) + \frac{1}{3} \log y$

9. $\log(x + y) + \frac{1}{3} \log y$
10. $\log x - \frac{5}{3} \log y$
11. $\log x - \log y$
12. $\log x - \frac{4}{3} \log y$

Document No. LEX3007092

1. $\log x - \frac{5}{3} \log y$
2. $\log x - \log y$
3. $\log x - \log y$
4. $\log x - 2 \log(x + y)$
5. $\log x - \log y$
6. $\log x - \log y$
7. $\log x - \log(x + y)$
8. $\log x - \log(x + y)$
9. $\log x - \log(x + y)$
10. $\log x - \log(x + y)$
11. $\log x - \log(x + y)$
12. $\log x - \log(x + y)$

Document No. LEX3007093

1. $\log x - \frac{3}{2} \log(x + y)$
2. $\log x - \log(x + y)$
3. $\log x - \log(x + y)$
4. $\log x - \log(x + y)$
5. $\log x - \log(x + y)$
6. $\log x - \log y$
7. $\log x - \log y$
8. $\log x - \log y$
9. $\log x - \log(x + y)$
10. $\log x - \log(x + y)$
11. $\log x + \log y$
12. $\log x - \log y$

Document No. LEX3007094

1. $\log x - \log y$
2. $\log x - \log y$
3. $\log x - \frac{5}{6} \log(x + y)$
4. $\log(x + y) + \frac{4}{5} \log y$
5. $\log x - \frac{3}{5} \log(x + y)$
6. $\log x - \log y$
7. $\log x + 2 \log y$
8. $\log x + 2 \log y$
9. $\log x + 2 \log y$
10. $\log x - \frac{1}{3} \log y$
11. $\log x + \log y$
12. $\log x + \log y$

Document No. LEX3007095

1. $\frac{5}{6} \log x - 2 \log(x + y)$
2. $\frac{1}{3} \log x + \frac{1}{3} \log y$
3. $\log x + \frac{1}{3} \log y$
4. $\log x + \frac{2}{3} \log y$
5. $\log x + \frac{1}{3} \log y$
6. $\log x - \log(x + y)$
7. $\log x - \log(x + y)$
8. $\frac{1}{3} \log x - \frac{1}{3} \log(x + y)$
9. $\frac{1}{3} \log x - \frac{1}{3} \log(x + y)$
10. $\frac{1}{4} \log(x + y) + \frac{5}{4} \log y$
11. $\frac{1}{3} \log(x + y) + \frac{2}{4} \log y$
12. $\frac{1}{2} \log x - \frac{1}{4} \log(x + y)$

Document No. LEX3007096

1. $\frac{1}{6} \log x - \frac{1}{4} \log(x + y)$
2. $\log x - \frac{2}{3} \log y$
3. $\log(x + y) + \log y$
4. $\log(x + y) + \log y$
5. $\log x + \frac{5}{6} \log y$
6. $\log x - \frac{1}{4} \log y$
7. $\log(x + y) + \frac{1}{4} \log y$
8. $\log x - \log y$
9. $\frac{1}{6} \log x - \log y$
10. $\log x - \frac{1}{2} \log y$
11. $\log x - \frac{1}{2} \log y$
12. $\frac{2}{5} \log(x + y) + \frac{5}{4} \log y$

Document No. LEX3007097

1. $\log(x + y) + \frac{5}{4} \log y$
2. $\log(x + y) + \frac{5}{4} \log y$
3. $\log x - \frac{3}{4} \log(x + y)$
4. $\log x - \frac{1}{3} \log y$
5. $\log(x + y) + \frac{1}{3} \log y$
6. $\log(x + y) + \frac{1}{3} \log y$
7. $\log(x + y) + \frac{1}{3} \log y$
8. $\log(x + y) + \frac{1}{3} \log y$
9. $\log(x + y) + \frac{1}{3} \log y$
10. $\frac{1}{2} \log x - \frac{2}{5} \log y$
11. $\frac{1}{5} \log x - \frac{2}{5} \log y$
12. $\frac{2}{3} \log x - 2 \log(x + y)$

Document No. LEX3007098

1. $\frac{1}{2} \log x - \frac{1}{3} \log(x + y)$
2. $\frac{1}{2} \log x - \frac{1}{3} \log(x + y)$
3. $\log x + \frac{1}{6} \log y$
4. $\frac{1}{6} \log x - \frac{1}{2} \log(x + y)$

5. $\log x - \frac{3}{5} \log y$
6. $\log(x + y) + \frac{1}{2} \log y$
7. $\log x + \frac{1}{2} \log y$
8. $\log x - \log y$
9. $\log x - \frac{1}{2} \log y$
10. $\frac{1}{3} \log x - \frac{5}{3} \log(x + y)$
11. $\log(x + y) + \frac{3}{4} \log y$
12. $\frac{1}{2} \log x - 2 \log(x + y)$

Document No. LEX3007099

1. $\frac{1}{5} \log(x + y) + \frac{1}{2} \log y$
2. $\log x + \frac{1}{3} \log y$
3. $\frac{1}{4} \log x - \log(x + y)$
4. $\frac{1}{4} \log x - \log(x + y)$
5. $\frac{1}{2} \log(x + y) + \frac{1}{4} \log y$
6. $\log(x + y) + \frac{4}{5} \log y$
7. $\log x - \log y$
8. $\log x - \log y$
9. $\frac{1}{2} \log x - \log y$
10. $\frac{1}{2} \log(x + y) + \log y$
11. $\frac{1}{3} \log x - \frac{1}{2} \log y$
12. $\frac{1}{3} \log x - \frac{1}{2} \log y$

Document No. LEX3007100

1. $\frac{1}{3} \log x - \frac{1}{2} \log y$
2. $\log x + \log y$
3. $\frac{1}{4} \log x - \log(x + y)$
4. $\log x - \log y$
5. $\log x - \log y$
6. $\log x - \log y$
7. $\log(x + y) + \frac{4}{5} \log y$
8. $\frac{1}{5} \log x - \frac{1}{5} \log(x + y)$
9. $\frac{1}{5} \log x - \frac{1}{5} \log(x + y)$
10. $\log(x + y) + \frac{3}{4} \log y$
11. $\frac{1}{3} \log x - \frac{1}{2} \log y$
12. $\frac{1}{3} \log x - \frac{1}{2} \log y$