

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601001

1. $2 \log x + 4 \log z =$

6. $\frac{3}{4} \log x + \frac{1}{2} \log x =$

2. $2 \log x - \frac{1}{3} \log y =$

7. $2 \log x - \frac{1}{4} \log y + \log z =$

3. $4 \log x + 3 \log z + 2 \log z =$

8. $2 \log x + \frac{2}{3} \log y =$

4. $\log z - \frac{1}{2} \log y - 4 \log z =$

9. $3 \log x + 5 \log z =$

5. $2 \log x - 5 \log z =$

10. $\frac{3}{4} \log z + \frac{3}{4} \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601002

1. $2 \log x - \frac{1}{3} \log y + \frac{2}{3} \log x =$

6. $\log x + \frac{1}{4} \log y - \frac{1}{3} \log z =$

2. $\frac{1}{4} \log x - \frac{1}{3} \log y =$

7. $5 \log x + \frac{1}{3} \log x =$

3. $\frac{1}{3} \log x + 5 \log x =$

8. $5 \log y - 3 \log y =$

4. $4 \log x + 3 \log y =$

9. $\frac{1}{3} \log x + \log x + 5 \log z =$

5. $5 \log x + \log y - 3 \log z =$

10. $5 \log x + 2 \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601003

1. $\log z - \frac{1}{3} \log y + 4 \log z =$

6. $\frac{2}{3} \log x - 5 \log y - 5 \log x =$

2. $4 \log x - \frac{1}{4} \log y + 3 \log z =$

7. $\frac{2}{3} \log x + 5 \log y - \frac{1}{3} \log z =$

3. $3 \log y - \frac{1}{3} \log y =$

8. $5 \log x + \frac{2}{3} \log x =$

4. $5 \log x + 2 \log y - \frac{3}{4} \log z =$

9. $\frac{1}{3} \log x - 4 \log y - 3 \log x =$

5. $4 \log x + \frac{1}{2} \log x =$

10. $\frac{3}{4} \log x + 4 \log y - 3 \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601004

1. $\frac{2}{3} \log x + \frac{1}{2} \log y =$

6. $\frac{1}{3} \log x + \frac{1}{4} \log y =$

2. $\frac{1}{2} \log z - \log y =$

7. $\frac{1}{4} \log x + \frac{1}{2} \log z + 3 \log z =$

3. $\frac{2}{3} \log x - 4 \log x =$

8. $\frac{1}{2} \log x - \frac{1}{3} \log y =$

4. $4 \log x - \frac{2}{3} \log x + 3 \log z =$

9. $\log y - \frac{2}{3} \log y =$

5. $\frac{1}{4} \log x - \frac{3}{4} \log y + 3 \log z =$

10. $\frac{1}{2} \log x - 5 \log y + \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601005

1. $2 \log x - 5 \log y =$

6. $\frac{3}{4} \log z - \frac{3}{4} \log y =$

2. $4 \log x + \log y =$

7. $\frac{1}{2} \log x - \frac{1}{2} \log y =$

3. $\frac{2}{3} \log z - 3 \log y =$

8. $4 \log y - 3 \log y - \frac{2}{3} \log z =$

4. $3 \log x - \frac{3}{4} \log y - 2 \log z =$

9. $4 \log x + 5 \log z =$

5. $\frac{1}{2} \log z - \log y =$

10. $\frac{1}{2} \log x + \frac{3}{4} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601006

1. $\frac{3}{4} \log x + 5 \log y =$

6. $\frac{1}{4} \log x + \frac{1}{2} \log y =$

2. $5 \log x - 5 \log y + \frac{1}{3} \log z =$

7. $2 \log x - \frac{1}{3} \log y =$

3. $3 \log x + \frac{1}{3} \log y + \log x =$

8. $\frac{1}{2} \log y - 2 \log y - \frac{1}{4} \log z =$

4. $5 \log x + 3 \log x =$

9. $\frac{1}{2} \log y - 3 \log y + \frac{1}{3} \log z =$

5. $5 \log x - 3 \log z + \frac{1}{4} \log z =$

10. $\frac{1}{2} \log x + 3 \log x + 2 \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601007

1. $\frac{1}{4} \log x + \frac{2}{3} \log z + \frac{1}{3} \log z =$

6. $\frac{3}{4} \log x - 5 \log x + 4 \log z =$

2. $\frac{3}{4} \log x - \frac{1}{2} \log z =$

7. $\log x - 5 \log y =$

3. $2 \log x - \log z + \frac{2}{3} \log z =$

8. $5 \log x + 2 \log x - \frac{2}{3} \log z =$

4. $\frac{2}{3} \log x - 5 \log x =$

9. $\log x - \frac{1}{3} \log y + 3 \log x =$

5. $5 \log x + \frac{1}{2} \log y + 4 \log z =$

10. $\frac{1}{2} \log x - 4 \log x =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601008

1. $5 \log x + 5 \log y - \frac{2}{3} \log z =$

6. $2 \log z - \frac{1}{3} \log y - 5 \log z =$

2. $\frac{3}{4} \log x + 2 \log z =$

7. $\frac{1}{2} \log x + \frac{3}{4} \log y - \frac{2}{3} \log y =$

3. $\frac{1}{3} \log x - \frac{1}{2} \log y =$

8. $\frac{1}{3} \log x - 2 \log y - \frac{3}{4} \log z =$

4. $\frac{3}{4} \log x + \frac{1}{2} \log z =$

9. $\frac{2}{3} \log z + 3 \log y + \log z =$

5. $5 \log x - \frac{1}{2} \log y + \frac{3}{4} \log x =$

10. $\frac{1}{4} \log z + 3 \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601009

1. $\frac{1}{2} \log x - 4 \log y =$

6. $5 \log x - 3 \log y =$

2. $\frac{1}{2} \log x - \frac{1}{4} \log x - \frac{3}{4} \log z =$

7. $4 \log x + \frac{2}{3} \log y + 3 \log z =$

3. $\frac{1}{4} \log x + 4 \log y =$

8. $2 \log x - \frac{1}{4} \log y =$

4. $\log y + \frac{1}{2} \log y =$

9. $\frac{2}{3} \log z + \frac{1}{2} \log y =$

5. $\frac{1}{4} \log x + 4 \log y =$

10. $\log x - \frac{1}{2} \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601010

1. $5 \log x - \frac{3}{4} \log z + \frac{3}{4} \log z =$

6. $\log x + 3 \log y =$

2. $\frac{3}{4} \log y - 4 \log y =$

7. $\frac{1}{2} \log x + \frac{1}{2} \log y =$

3. $3 \log y + \frac{1}{2} \log y - 3 \log z =$

8. $\frac{1}{4} \log x - \frac{1}{3} \log z =$

4. $5 \log x - \frac{2}{3} \log z + \frac{1}{4} \log z =$

9. $2 \log x - 5 \log y =$

5. $\frac{3}{4} \log x + \frac{1}{3} \log y =$

10. $5 \log x + \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601011

1. $\frac{1}{4} \log x + 4 \log y =$

6. $\frac{1}{3} \log z + 5 \log y + 3 \log z =$

2. $\log x + \frac{1}{2} \log z =$

7. $\frac{3}{4} \log x + \log y - \frac{3}{4} \log z =$

3. $\frac{1}{3} \log z - \log y - \frac{1}{3} \log z =$

8. $\frac{1}{4} \log x - \frac{1}{2} \log y =$

4. $3 \log x - \frac{1}{3} \log y + 5 \log y =$

9. $3 \log z + 3 \log y + \frac{1}{3} \log z =$

5. $2 \log x - \frac{2}{3} \log x =$

10. $\frac{3}{4} \log x + 3 \log y + 4 \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601012

1. $5 \log y + 3 \log y - \frac{3}{4} \log z =$

6. $5 \log x + \frac{1}{4} \log y =$

2. $\log x + \frac{2}{3} \log y + 4 \log x =$

7. $4 \log y - 2 \log y =$

3. $\frac{3}{4} \log x + \frac{1}{2} \log y + 2 \log z =$

8. $\frac{1}{4} \log x - \frac{1}{3} \log x - \frac{2}{3} \log z =$

4. $3 \log x - 4 \log x - 4 \log z =$

9. $2 \log y + \frac{3}{4} \log y + \log z =$

5. $\frac{1}{2} \log x - \frac{1}{3} \log y - 4 \log z =$

10. $3 \log y + \frac{3}{4} \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601013

1. $3 \log y - \frac{1}{3} \log y + 4 \log z =$

6. $\frac{1}{3} \log x - \log y =$

2. $\frac{1}{4} \log x - 2 \log x + \frac{3}{4} \log z =$

7. $5 \log x + \frac{3}{4} \log z - \frac{1}{3} \log z =$

3. $5 \log x + \frac{1}{4} \log x =$

8. $\frac{1}{3} \log y - \frac{2}{3} \log y =$

4. $\frac{1}{2} \log x - 5 \log x =$

9. $4 \log x + \frac{1}{2} \log y + \frac{1}{2} \log y =$

5. $5 \log y + \frac{3}{4} \log y - 2 \log z =$

10. $3 \log x - \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601014

1. $3 \log x - \frac{2}{3} \log z =$

6. $3 \log x - 5 \log y - \frac{2}{3} \log z =$

2. $\frac{3}{4} \log x + \frac{1}{3} \log y =$

7. $\frac{1}{2} \log x - 2 \log z =$

3. $\frac{1}{3} \log x - 5 \log z - \frac{3}{4} \log z =$

8. $\frac{2}{3} \log x - \frac{1}{4} \log y - \frac{3}{4} \log z =$

4. $5 \log x - \frac{1}{2} \log y - 2 \log z =$

9. $4 \log x + \frac{2}{3} \log y + 5 \log z =$

5. $4 \log x - 3 \log y + \frac{3}{4} \log y =$

10. $\log x - 5 \log z - \frac{3}{4} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601015

1. $4 \log x - 4 \log y =$

6. $\frac{2}{3} \log x + \frac{1}{3} \log z =$

2. $\frac{3}{4} \log x - 2 \log y - \log z =$

7. $\frac{1}{3} \log z + 2 \log y =$

3. $\frac{1}{4} \log y + \frac{1}{2} \log y =$

8. $\frac{2}{3} \log x + 5 \log y + 5 \log y =$

4. $2 \log x - \frac{3}{4} \log y - 2 \log y =$

9. $\log x - 2 \log y + \log z =$

5. $4 \log x - \frac{1}{2} \log y - 4 \log z =$

10. $\frac{1}{4} \log x + 5 \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601016

1. $\frac{1}{4} \log x - \log x + \frac{1}{3} \log z =$

6. $\frac{3}{4} \log x - 5 \log y =$

2. $\frac{3}{4} \log x - \log y =$

7. $\frac{2}{3} \log x + \frac{2}{3} \log x + 3 \log z =$

3. $\log x - \frac{1}{3} \log z =$

8. $2 \log x + 3 \log x - 5 \log z =$

4. $\frac{3}{4} \log z - 5 \log y =$

9. $\frac{3}{4} \log x + 4 \log z - 5 \log z =$

5. $\frac{1}{4} \log x - \frac{1}{3} \log x =$

10. $\frac{3}{4} \log x + \frac{2}{3} \log y + \frac{2}{3} \log x =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601017

1. $\frac{1}{2} \log x - 5 \log y =$

6. $5 \log x + \frac{1}{3} \log y - 2 \log z =$

2. $\log x - \log y - \frac{1}{2} \log z =$

7. $\frac{1}{4} \log x + 3 \log y + 3 \log z =$

3. $\frac{1}{3} \log x + 3 \log z + \frac{2}{3} \log z =$

8. $4 \log x + \frac{2}{3} \log y + 4 \log z =$

4. $\frac{2}{3} \log x + 5 \log y =$

9. $\frac{1}{2} \log x + 4 \log y - \log z =$

5. $5 \log x - \frac{1}{2} \log z + \frac{2}{3} \log z =$

10. $\frac{1}{3} \log x - 2 \log x =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601018

1. $2 \log x - \frac{1}{4} \log y + \frac{2}{3} \log y =$

6. $\frac{3}{4} \log x - 3 \log y =$

2. $\log x - \frac{1}{3} \log x =$

7. $\frac{1}{3} \log x + 2 \log y + \frac{1}{4} \log x =$

3. $3 \log x + 2 \log y - 5 \log z =$

8. $2 \log x - 3 \log y - 3 \log y =$

4. $\frac{1}{3} \log z - \frac{1}{2} \log y + 4 \log z =$

9. $\frac{1}{4} \log x - \frac{2}{3} \log z - \frac{1}{4} \log z =$

5. $3 \log x - \frac{2}{3} \log x + 2 \log z =$

10. $4 \log x + \frac{1}{4} \log y - 5 \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601019

1. $\log x + \frac{2}{3} \log y =$

6. $5 \log x + 2 \log y =$

2. $\frac{2}{3} \log x - \frac{1}{4} \log x + 3 \log z =$

7. $\frac{1}{2} \log x - \frac{2}{3} \log y =$

3. $\frac{1}{3} \log x + 2 \log x =$

8. $5 \log x + \frac{2}{3} \log x - \frac{2}{3} \log z =$

4. $\frac{1}{2} \log x + \frac{1}{3} \log z - 3 \log z =$

9. $\frac{1}{2} \log x - 2 \log y + \log z =$

5. $\frac{2}{3} \log x + \frac{2}{3} \log x =$

10. $\frac{3}{4} \log x - \frac{1}{4} \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601020

1. $\frac{3}{4} \log y - 4 \log y =$

6. $3 \log z + \frac{1}{4} \log y + \frac{2}{3} \log z =$

2. $5 \log x - \frac{1}{4} \log y =$

7. $5 \log x + \log y + 3 \log z =$

3. $\frac{1}{2} \log x + \log y - \frac{1}{2} \log z =$

8. $\frac{2}{3} \log x + \frac{1}{2} \log y =$

4. $\frac{1}{2} \log x + 2 \log y =$

9. $\frac{3}{4} \log x + 4 \log z - \frac{3}{4} \log z =$

5. $2 \log x + \log z - \frac{1}{2} \log z =$

10. $3 \log x + \frac{1}{3} \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601021

1. $\frac{1}{4} \log x - \frac{2}{3} \log y =$

6. $\frac{1}{4} \log z + 4 \log y =$

2. $\frac{1}{3} \log x - \frac{3}{4} \log y =$

7. $5 \log x + 3 \log y + \frac{1}{4} \log y =$

3. $4 \log y - 4 \log y + 3 \log z =$

8. $5 \log x + \frac{1}{4} \log y - 2 \log z =$

4. $\frac{3}{4} \log z - \log y - \frac{1}{2} \log z =$

9. $3 \log x + 5 \log y - \log z =$

5. $\frac{1}{3} \log x - \frac{1}{3} \log z =$

10. $2 \log x - 5 \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601022

1. $\frac{3}{4} \log x - \frac{1}{3} \log y + \frac{2}{3} \log z =$

6. $\frac{2}{3} \log x - 3 \log y + 5 \log z =$

2. $5 \log x + \frac{1}{3} \log y + \frac{1}{4} \log y =$

7. $5 \log x + \frac{1}{4} \log y - 5 \log z =$

3. $5 \log x - \frac{3}{4} \log y + \log z =$

8. $\frac{2}{3} \log x + 4 \log x - \frac{2}{3} \log z =$

4. $5 \log x + \frac{1}{3} \log y + \frac{3}{4} \log y =$

9. $4 \log z - 5 \log y =$

5. $5 \log z - 2 \log y - \frac{2}{3} \log z =$

10. $\frac{2}{3} \log x + \frac{1}{2} \log y + \frac{1}{3} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601023

1. $\frac{3}{4} \log x - \frac{1}{3} \log y =$

6. $\log z - 2 \log y =$

2. $2 \log x - \frac{1}{3} \log y =$

7. $5 \log x + \frac{3}{4} \log y - 4 \log z =$

3. $\log x + 3 \log z =$

8. $\frac{1}{4} \log x + \frac{2}{3} \log y + \frac{3}{4} \log z =$

4. $5 \log x - 2 \log y - 5 \log z =$

9. $\frac{3}{4} \log x - 4 \log y + \frac{1}{4} \log z =$

5. $3 \log x - 4 \log y - 5 \log z =$

10. $5 \log x - \frac{1}{3} \log x - \frac{1}{3} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601024

1. $4 \log x + \frac{1}{2} \log y + \frac{1}{3} \log z =$

6. $3 \log x - 2 \log y + \log z =$

2. $\frac{2}{3} \log x - \frac{1}{4} \log y =$

7. $\frac{3}{4} \log x - \frac{1}{2} \log y - \frac{1}{3} \log x =$

3. $5 \log x - \frac{1}{2} \log x =$

8. $\frac{1}{2} \log z - 2 \log y + \frac{1}{2} \log z =$

4. $\frac{2}{3} \log x + \frac{2}{3} \log y - \frac{1}{3} \log z =$

9. $5 \log y + 2 \log y + \frac{2}{3} \log z =$

5. $\log z - \frac{1}{2} \log y =$

10. $\frac{1}{4} \log z - 5 \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601025

1. $\frac{3}{4} \log x - \frac{1}{2} \log y =$

6. $4 \log y - \frac{1}{4} \log y =$

2. $\frac{1}{4} \log x - 4 \log y + \frac{3}{4} \log z =$

7. $3 \log x - \log y =$

3. $\frac{2}{3} \log x - \frac{1}{4} \log y - \frac{3}{4} \log z =$

8. $5 \log x + \log z - \frac{1}{2} \log z =$

4. $5 \log x - \frac{1}{2} \log y =$

9. $\frac{1}{4} \log z - \log y =$

5. $5 \log x + \frac{1}{3} \log y + 5 \log z =$

10. $\log x + \log x =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601026

1. $5 \log x + \frac{1}{3} \log z + \log z =$

6. $5 \log y + 5 \log y =$

2. $5 \log y + 4 \log y - \frac{3}{4} \log z =$

7. $\frac{1}{2} \log x + 4 \log x =$

3. $\frac{1}{3} \log x - 2 \log y =$

8. $\frac{1}{3} \log z + \frac{3}{4} \log y =$

4. $\frac{2}{3} \log x - \frac{2}{3} \log y =$

9. $\frac{3}{4} \log x + \log y + \frac{1}{2} \log y =$

5. $3 \log x - 4 \log y =$

10. $\frac{1}{3} \log x - \frac{1}{3} \log z + 3 \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601027

1. $\frac{2}{3} \log x - 3 \log x =$

6. $\frac{1}{2} \log x - \frac{1}{2} \log y =$

2. $4 \log x - \frac{1}{3} \log y =$

7. $\frac{2}{3} \log y - \frac{3}{4} \log y + 3 \log z =$

3. $\frac{1}{2} \log x + \frac{2}{3} \log y =$

8. $\frac{2}{3} \log x + \frac{1}{4} \log y - \frac{1}{2} \log x =$

4. $\frac{1}{4} \log z - \frac{1}{4} \log y =$

9. $2 \log x - \log y =$

5. $\log x + \frac{1}{2} \log y - 2 \log y =$

10. $\frac{1}{2} \log x - \frac{1}{4} \log y - \frac{1}{2} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601028

1. $5 \log x + \frac{3}{4} \log z =$

6. $3 \log y + \frac{3}{4} \log y - \frac{3}{4} \log z =$

2. $4 \log x + \frac{1}{3} \log y + 4 \log z =$

7. $4 \log x - \frac{1}{3} \log z =$

3. $\frac{1}{2} \log x + \log y =$

8. $\frac{3}{4} \log x - \frac{1}{4} \log y + 2 \log z =$

4. $\frac{1}{3} \log x - \frac{1}{4} \log y - 4 \log y =$

9. $\log x - \frac{3}{4} \log y =$

5. $\frac{1}{4} \log x + 3 \log y =$

10. $\frac{1}{3} \log x + \frac{1}{3} \log x + \frac{1}{4} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601029

1. $5 \log x - 3 \log z =$

6. $5 \log z - \frac{1}{4} \log y =$

2. $\frac{1}{4} \log x + \frac{2}{3} \log y + 4 \log x =$

7. $\frac{2}{3} \log x - \frac{1}{3} \log y =$

3. $\frac{3}{4} \log x - \frac{1}{2} \log y - \frac{1}{4} \log x =$

8. $\log x + \frac{2}{3} \log y + 3 \log y =$

4. $\frac{1}{4} \log x + 4 \log y + \log y =$

9. $\frac{2}{3} \log z - 2 \log y =$

5. $\frac{3}{4} \log x + 2 \log y - \frac{1}{2} \log z =$

10. $\frac{2}{3} \log y + 4 \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601030

1. $\frac{3}{4} \log x - 2 \log x =$

6. $\frac{2}{3} \log x + \frac{1}{2} \log y + \frac{2}{3} \log y =$

2. $3 \log x - 5 \log y =$

7. $\frac{1}{2} \log x - \frac{2}{3} \log y =$

3. $\frac{3}{4} \log x - 4 \log y =$

8. $\frac{1}{2} \log x + 5 \log y + \frac{2}{3} \log x =$

4. $\frac{3}{4} \log x - \frac{3}{4} \log y =$

9. $\frac{1}{2} \log x - 2 \log y + \log z =$

5. $5 \log x + 2 \log z =$

10. $5 \log y - \log y + \frac{3}{4} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601031

1. $\log x - 2 \log z + \frac{3}{4} \log z =$

6. $\frac{3}{4} \log x - 4 \log y =$

2. $4 \log x + \frac{2}{3} \log x + 5 \log z =$

7. $2 \log x + \frac{1}{3} \log x =$

3. $\frac{2}{3} \log x - \frac{1}{4} \log x + \frac{1}{2} \log z =$

8. $\log x + \log y =$

4. $5 \log x + \frac{3}{4} \log x =$

9. $\frac{1}{2} \log x + \frac{1}{4} \log y =$

5. $2 \log x + \frac{1}{4} \log z - 3 \log z =$

10. $4 \log z - 3 \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601032

1. $4 \log x + \frac{1}{3} \log y + 5 \log y =$

6. $5 \log z + \frac{1}{3} \log y =$

2. $\frac{1}{3} \log x + 4 \log x =$

7. $2 \log x + \frac{1}{3} \log y + \frac{1}{3} \log y =$

3. $\frac{1}{4} \log y + \frac{3}{4} \log y =$

8. $5 \log y - 5 \log y - 2 \log z =$

4. $2 \log y - \frac{1}{2} \log y =$

9. $3 \log x - \frac{1}{3} \log y =$

5. $\frac{2}{3} \log x - 3 \log y - 3 \log z =$

10. $4 \log x + \frac{2}{3} \log y + 3 \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601033

1. $\frac{3}{4} \log x + \frac{1}{4} \log y =$

6. $\frac{3}{4} \log x + 4 \log y =$

2. $3 \log z - \frac{1}{3} \log y =$

7. $4 \log x - \frac{1}{2} \log y =$

3. $\frac{3}{4} \log x + \frac{3}{4} \log y =$

8. $\log x - \log z + \frac{2}{3} \log z =$

4. $\frac{1}{3} \log x + 5 \log y =$

9. $\frac{1}{2} \log x - 3 \log y =$

5. $\frac{3}{4} \log x + \frac{3}{4} \log y - \frac{1}{4} \log z =$

10. $\frac{3}{4} \log x + 4 \log y + 2 \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601034

1. $\frac{1}{2} \log y - 3 \log y =$

6. $\log x - \log x =$

2. $2 \log x - \log y - 3 \log y =$

7. $\frac{1}{3} \log x + \frac{2}{3} \log z =$

3. $4 \log x + \frac{1}{2} \log y =$

8. $\frac{1}{4} \log z + \frac{2}{3} \log y =$

4. $2 \log x - \log y =$

9. $\frac{1}{3} \log x - \log y =$

5. $3 \log y - \log y =$

10. $\frac{3}{4} \log x - \frac{1}{3} \log y - \frac{3}{4} \log x =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601035

1. $\frac{1}{4} \log x - \frac{2}{3} \log z =$

6. $\log x + 5 \log y =$

2. $3 \log y - \frac{1}{3} \log y =$

7. $4 \log x + 4 \log y + 5 \log z =$

3. $5 \log x + \frac{1}{4} \log y - \frac{1}{3} \log y =$

8. $2 \log x + \frac{1}{4} \log x =$

4. $\frac{2}{3} \log x + 5 \log z - 4 \log z =$

9. $5 \log x + 5 \log y + \log z =$

5. $\frac{1}{2} \log x + \frac{1}{3} \log z =$

10. $\frac{3}{4} \log x + 3 \log x =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601036

1. $\frac{3}{4} \log x + \frac{3}{4} \log x + \frac{1}{2} \log z =$

6. $\log x - \frac{3}{4} \log y =$

2. $\frac{1}{3} \log x + \frac{2}{3} \log y - 5 \log z =$

7. $\frac{1}{4} \log y + \frac{1}{4} \log y =$

3. $3 \log x + 5 \log x =$

8. $\frac{3}{4} \log z - \frac{2}{3} \log y =$

4. $\log x - 3 \log y =$

9. $\frac{2}{3} \log x - \log x + \frac{1}{4} \log z =$

5. $\frac{3}{4} \log x + \frac{1}{3} \log x - \frac{3}{4} \log z =$

10. $\frac{2}{3} \log z - \frac{3}{4} \log y - 4 \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601037

1. $5 \log x + \frac{2}{3} \log y =$

6. $\frac{1}{3} \log x - \frac{1}{4} \log y =$

2. $\log x - \frac{1}{2} \log y =$

7. $\frac{2}{3} \log x - \frac{1}{2} \log x =$

3. $\frac{1}{2} \log x - \log x - \frac{2}{3} \log z =$

8. $\frac{1}{2} \log x - \frac{1}{2} \log y + \frac{1}{2} \log y =$

4. $\frac{1}{3} \log y - \frac{1}{3} \log y - 2 \log z =$

9. $5 \log z - 2 \log y =$

5. $\frac{3}{4} \log y - \frac{1}{4} \log y =$

10. $4 \log x + \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601038

1. $\frac{2}{3} \log x - \frac{3}{4} \log y =$

6. $\log z + \frac{2}{3} \log y =$

2. $\frac{1}{4} \log x - \frac{1}{3} \log y =$

7. $3 \log x + \frac{1}{4} \log y - \frac{1}{4} \log y =$

3. $\frac{3}{4} \log x - \frac{2}{3} \log x =$

8. $\log x + \frac{1}{4} \log y =$

4. $2 \log x - \frac{1}{3} \log y - 5 \log z =$

9. $3 \log x - \log y =$

5. $4 \log y + \frac{3}{4} \log y =$

10. $\frac{2}{3} \log x + \frac{1}{4} \log y + \frac{1}{3} \log x =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601039

1. $\frac{1}{2} \log y - \frac{1}{4} \log y - \frac{3}{4} \log z =$

6. $5 \log x - 3 \log z =$

2. $\log x + 4 \log y - \frac{3}{4} \log x =$

7. $3 \log x - 5 \log z =$

3. $4 \log x + \frac{1}{2} \log y =$

8. $\frac{3}{4} \log x - \log x =$

4. $4 \log x + \frac{3}{4} \log y + \log z =$

9. $3 \log x - 5 \log y =$

5. $4 \log y + \frac{2}{3} \log y - \frac{1}{4} \log z =$

10. $\frac{1}{2} \log x - \frac{1}{3} \log y - \frac{3}{4} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601040

1. $\frac{1}{4} \log x + 4 \log y - \frac{3}{4} \log x =$

6. $3 \log x + \frac{3}{4} \log y - \log z =$

2. $5 \log z - \frac{1}{3} \log y =$

7. $3 \log x + \frac{3}{4} \log y - \frac{3}{4} \log y =$

3. $4 \log x + \frac{2}{3} \log y =$

8. $\frac{3}{4} \log x - 2 \log y + 3 \log y =$

4. $\log z - 3 \log y - \log z =$

9. $\frac{1}{3} \log x + \frac{1}{3} \log x - \frac{1}{2} \log z =$

5. $2 \log x - \frac{3}{4} \log y + 4 \log z =$

10. $\frac{1}{2} \log x - \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601041

1. $2 \log x - \frac{2}{3} \log y + 5 \log z =$

6. $3 \log x + \frac{2}{3} \log y =$

2. $3 \log x - \frac{2}{3} \log y - \frac{1}{4} \log y =$

7. $\frac{1}{2} \log x - \log x - 5 \log z =$

3. $\log x - \frac{2}{3} \log y - \frac{1}{2} \log z =$

8. $\frac{1}{4} \log x + \frac{1}{2} \log y + \frac{2}{3} \log x =$

4. $4 \log x - \frac{1}{4} \log y =$

9. $\frac{3}{4} \log x + \frac{1}{2} \log y =$

5. $\frac{1}{4} \log x - \frac{2}{3} \log x =$

10. $4 \log x - 2 \log y - \log x =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601042

1. $\frac{2}{3} \log z + 5 \log y + 2 \log z =$

6. $\frac{2}{3} \log x - \frac{2}{3} \log y =$

2. $2 \log z + \frac{1}{4} \log y - 5 \log z =$

7. $\frac{2}{3} \log x - \frac{2}{3} \log x =$

3. $4 \log x + \log y =$

8. $5 \log x + 4 \log z =$

4. $\frac{1}{4} \log x - \log z + 4 \log z =$

9. $\frac{2}{3} \log x + \log y + 5 \log z =$

5. $\frac{2}{3} \log y + 4 \log y =$

10. $2 \log x + \frac{1}{2} \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601043

1. $5 \log y + \frac{3}{4} \log y =$

6. $\log x + \log y - \frac{1}{4} \log z =$

2. $\frac{2}{3} \log x - 5 \log y - \log z =$

7. $\frac{1}{4} \log z - \frac{1}{4} \log y + \log z =$

3. $\log x + \frac{2}{3} \log y - \frac{3}{4} \log x =$

8. $\frac{1}{3} \log z + \frac{3}{4} \log y =$

4. $\frac{3}{4} \log y - \frac{1}{3} \log y =$

9. $\frac{1}{2} \log x + \frac{1}{4} \log z =$

5. $\frac{1}{2} \log x + \frac{1}{2} \log z =$

10. $2 \log x - 3 \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601044

1. $4 \log x + 4 \log y + \log z =$

6. $\log z + 3 \log y =$

2. $3 \log x + \frac{2}{3} \log z =$

7. $\log x + \frac{2}{3} \log z =$

3. $2 \log x - 3 \log y - \log z =$

8. $\frac{1}{4} \log y + \frac{3}{4} \log y =$

4. $\frac{3}{4} \log x - 2 \log y =$

9. $5 \log x - \frac{3}{4} \log z =$

5. $\frac{1}{3} \log x + \frac{1}{4} \log x - 3 \log z =$

10. $\frac{1}{2} \log x - \frac{1}{2} \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601045

1. $2 \log x + 4 \log y =$

6. $5 \log x - 3 \log y =$

2. $\frac{1}{3} \log x - \frac{2}{3} \log x =$

7. $\frac{3}{4} \log x - 2 \log y + \frac{1}{4} \log z =$

3. $\frac{2}{3} \log x + 3 \log y =$

8. $5 \log x - \frac{1}{2} \log x - 5 \log z =$

4. $\frac{1}{2} \log y - \frac{1}{4} \log y - 2 \log z =$

9. $4 \log x - \frac{3}{4} \log y =$

5. $\frac{2}{3} \log x + 5 \log z =$

10. $\frac{1}{3} \log x - \frac{1}{3} \log y + 4 \log x =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601046

1. $4 \log x - \frac{2}{3} \log y =$

6. $\frac{1}{3} \log x - 3 \log z - 2 \log z =$

2. $\frac{1}{3} \log x - 4 \log x =$

7. $\frac{2}{3} \log x - \frac{1}{2} \log y - 2 \log x =$

3. $5 \log x - 2 \log y - \frac{1}{3} \log x =$

8. $5 \log x + 3 \log y =$

4. $3 \log z + \frac{1}{4} \log y =$

9. $\frac{1}{2} \log x + 2 \log y + 4 \log z =$

5. $\log x - \frac{2}{3} \log y + \frac{1}{4} \log x =$

10. $4 \log z - \frac{1}{3} \log y + \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601047

1. $3 \log x - \frac{3}{4} \log y + \frac{1}{4} \log x =$

6. $\log x - \frac{1}{2} \log y + \log z =$

2. $\frac{1}{2} \log x + \frac{1}{2} \log y + \frac{1}{3} \log z =$

7. $3 \log x - 5 \log y - 3 \log z =$

3. $\frac{3}{4} \log y + \frac{3}{4} \log y + 4 \log z =$

8. $3 \log x - \frac{1}{3} \log y - \log x =$

4. $\frac{1}{4} \log x + 5 \log y =$

9. $\frac{3}{4} \log y + 5 \log y - \frac{3}{4} \log z =$

5. $\frac{1}{3} \log x + 2 \log y - 4 \log z =$

10. $2 \log x - 2 \log y - \frac{2}{3} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601048

1. $4 \log x - 4 \log y - \frac{1}{4} \log z =$

6. $\frac{1}{2} \log x + 4 \log x + 3 \log z =$

2. $5 \log z + 5 \log y + 5 \log z =$

7. $\frac{3}{4} \log z + 4 \log y - \frac{1}{4} \log z =$

3. $3 \log x - \frac{1}{3} \log y - \frac{1}{3} \log z =$

8. $4 \log x - 4 \log z + \frac{1}{4} \log z =$

4. $2 \log x - 5 \log y =$

9. $3 \log x - \frac{3}{4} \log y =$

5. $3 \log x - 4 \log x =$

10. $\frac{1}{2} \log x + \frac{1}{4} \log y + 2 \log x =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601049

1. $\frac{1}{3} \log x + \frac{1}{3} \log y =$

6. $\frac{1}{3} \log x - \frac{2}{3} \log z =$

2. $4 \log y - \frac{1}{4} \log y - \log z =$

7. $3 \log x + \log x =$

3. $\frac{1}{3} \log x + \frac{1}{4} \log y =$

8. $\log x + \frac{1}{3} \log y =$

4. $\frac{2}{3} \log x + \frac{1}{3} \log y =$

9. $2 \log x - \frac{1}{2} \log y =$

5. $5 \log x + 3 \log z + 3 \log z =$

10. $\frac{1}{2} \log x - \frac{1}{2} \log y + \frac{2}{3} \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601050

1. $\frac{1}{3} \log x + \frac{1}{2} \log y - 2 \log x =$

6. $2 \log y - \frac{1}{3} \log y =$

2. $\frac{1}{3} \log x + 4 \log y =$

7. $\frac{3}{4} \log x - \frac{2}{3} \log y =$

3. $5 \log x - \frac{3}{4} \log z + 3 \log z =$

8. $5 \log x - \frac{2}{3} \log y - \frac{1}{3} \log x =$

4. $\frac{1}{4} \log y + 4 \log y + 3 \log z =$

9. $\frac{3}{4} \log x - 2 \log y =$

5. $4 \log x + 2 \log y =$

10. $2 \log x - 4 \log y - \frac{1}{3} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601051

1. $5 \log x + \frac{2}{3} \log x =$

6. $4 \log x + \frac{1}{2} \log y =$

2. $\frac{1}{2} \log x - \frac{2}{3} \log y =$

7. $\frac{1}{2} \log x - \frac{1}{2} \log y =$

3. $5 \log y - \log y + \frac{1}{3} \log z =$

8. $\frac{1}{4} \log x + \frac{2}{3} \log x - \frac{1}{2} \log z =$

4. $\frac{3}{4} \log y - \frac{1}{3} \log y + 5 \log z =$

9. $2 \log x - \frac{1}{3} \log z =$

5. $\frac{1}{3} \log x - \frac{1}{3} \log x =$

10. $4 \log x - \frac{1}{2} \log x =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601052

1. $\frac{1}{4} \log x + \frac{1}{4} \log y - \frac{1}{3} \log z =$

6. $2 \log x - 5 \log y =$

2. $5 \log z - \frac{1}{3} \log y + \frac{1}{3} \log z =$

7. $5 \log x + \frac{1}{3} \log x =$

3. $\frac{3}{4} \log x - \frac{1}{4} \log y =$

8. $\frac{1}{4} \log x + \frac{1}{3} \log y + 5 \log z =$

4. $\frac{1}{3} \log z - \frac{1}{4} \log y =$

9. $4 \log y - \frac{1}{4} \log y + \frac{2}{3} \log z =$

5. $\frac{2}{3} \log x - 5 \log x =$

10. $\frac{1}{2} \log x - 2 \log y - \frac{1}{2} \log x =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601053

1. $\frac{1}{3} \log x + \frac{3}{4} \log y + \frac{3}{4} \log z =$

6. $\frac{1}{2} \log x + \frac{1}{2} \log z - \frac{1}{4} \log z =$

2. $\frac{1}{3} \log y - \frac{1}{3} \log y + 4 \log z =$

7. $\frac{1}{4} \log x + 4 \log z + \frac{3}{4} \log z =$

3. $\log x + \frac{1}{3} \log y - \frac{1}{3} \log z =$

8. $\frac{1}{3} \log x - 3 \log y =$

4. $3 \log y + \frac{3}{4} \log y =$

9. $\frac{1}{3} \log x - 2 \log x + 3 \log z =$

5. $\frac{3}{4} \log x - 4 \log y =$

10. $3 \log x + 3 \log y + \frac{2}{3} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601054

1. $4 \log x + \frac{1}{3} \log z + \log z =$

6. $\log z + \frac{1}{2} \log y - \frac{2}{3} \log z =$

2. $3 \log y + 3 \log y =$

7. $\frac{1}{2} \log x + \frac{1}{3} \log z - \frac{1}{4} \log z =$

3. $3 \log x + 5 \log x - 2 \log z =$

8. $\frac{3}{4} \log x - 3 \log y =$

4. $\frac{2}{3} \log x + \frac{1}{3} \log y + 4 \log z =$

9. $5 \log x + 4 \log y =$

5. $\frac{2}{3} \log x + \frac{1}{3} \log y =$

10. $\frac{1}{2} \log x - 2 \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601055

1. $3 \log x - \log y + \frac{1}{2} \log z =$

6. $\log y + \frac{3}{4} \log y - 4 \log z =$

2. $\frac{1}{4} \log x - \frac{1}{4} \log x =$

7. $\frac{1}{4} \log x + \frac{1}{2} \log y =$

3. $\frac{1}{4} \log x - \log x + 5 \log z =$

8. $\frac{2}{3} \log x - \log y + 2 \log y =$

4. $\frac{1}{3} \log x - 5 \log y =$

9. $\frac{2}{3} \log x - 2 \log x =$

5. $\frac{2}{3} \log z - 4 \log y + \log z =$

10. $\frac{1}{3} \log y + 4 \log y + \frac{1}{4} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601056

1. $\frac{1}{4} \log x - \frac{1}{4} \log z + \log z =$

6. $\frac{1}{4} \log y - \frac{2}{3} \log y + \frac{1}{4} \log z =$

2. $3 \log z + 2 \log y - 2 \log z =$

7. $5 \log x - \frac{3}{4} \log x =$

3. $5 \log x - \frac{1}{4} \log y =$

8. $3 \log x - \frac{1}{3} \log y =$

4. $3 \log x + 3 \log y - 2 \log z =$

9. $\log x - \frac{1}{2} \log y =$

5. $\log x - 4 \log y =$

10. $\frac{1}{2} \log y - 5 \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601057

1. $5 \log z + 4 \log y =$

6. $\frac{2}{3} \log x + \frac{1}{4} \log y + \log z =$

2. $2 \log x + \frac{1}{3} \log y =$

7. $\log y + 4 \log y - 4 \log z =$

3. $4 \log x - \frac{1}{2} \log y - \frac{1}{2} \log z =$

8. $\frac{1}{3} \log x - \frac{3}{4} \log y - 2 \log y =$

4. $\frac{3}{4} \log x + \frac{1}{3} \log z - \frac{1}{3} \log z =$

9. $\frac{1}{2} \log x - \frac{1}{4} \log y =$

5. $\frac{1}{2} \log x - 3 \log y - 2 \log z =$

10. $\frac{2}{3} \log x - 5 \log y - \frac{1}{3} \log x =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601058

1. $\frac{2}{3} \log x + \frac{3}{4} \log y =$

6. $\frac{2}{3} \log x - \frac{2}{3} \log y + \frac{2}{3} \log x =$

2. $5 \log x + 4 \log z + \log z =$

7. $\frac{2}{3} \log x + 4 \log y =$

3. $\frac{1}{3} \log x + 4 \log y - 2 \log z =$

8. $\frac{2}{3} \log z - \frac{1}{4} \log y =$

4. $\frac{2}{3} \log x - 3 \log x =$

9. $\frac{1}{2} \log x - 5 \log y + \frac{1}{4} \log x =$

5. $\frac{1}{4} \log x - 3 \log y =$

10. $\frac{2}{3} \log x - \frac{2}{3} \log x - \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601059

1. $5 \log x - 3 \log y - 5 \log z =$

6. $\frac{3}{4} \log x - 4 \log y + 5 \log z =$

2. $4 \log x - \frac{3}{4} \log y =$

7. $5 \log x + 4 \log y =$

3. $4 \log x + \frac{3}{4} \log z =$

8. $\frac{1}{4} \log x + 3 \log z =$

4. $\frac{1}{3} \log x + \frac{2}{3} \log x - 4 \log z =$

9. $\frac{1}{3} \log y + \log y - 3 \log z =$

5. $\frac{1}{4} \log x + 4 \log y - \frac{1}{3} \log z =$

10. $\frac{3}{4} \log x + 4 \log y - 4 \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601060

1. $\frac{2}{3} \log x - 4 \log y =$

6. $\log z - \frac{2}{3} \log y + 4 \log z =$

2. $4 \log x + \frac{3}{4} \log y =$

7. $\frac{1}{3} \log x + \frac{1}{2} \log y =$

3. $\frac{1}{4} \log x - \frac{1}{4} \log z - 4 \log z =$

8. $\log x + \frac{3}{4} \log y =$

4. $3 \log x - \frac{1}{3} \log y =$

9. $\frac{2}{3} \log x - 2 \log z + \frac{1}{4} \log z =$

5. $\frac{1}{3} \log x + 3 \log y =$

10. $2 \log y + \frac{1}{3} \log y + 3 \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601061

1. $2 \log y + \frac{1}{2} \log y =$

6. $5 \log x - 4 \log z + \frac{2}{3} \log z =$

2. $4 \log y - \frac{2}{3} \log y =$

7. $\frac{1}{2} \log x + \frac{1}{2} \log y + 2 \log y =$

3. $5 \log x + \frac{1}{2} \log y - \frac{1}{4} \log z =$

8. $\frac{1}{4} \log z - \frac{1}{3} \log y + \frac{3}{4} \log z =$

4. $2 \log x - 5 \log y =$

9. $5 \log x - \frac{2}{3} \log y =$

5. $4 \log x - \frac{1}{2} \log z - 3 \log z =$

10. $\frac{3}{4} \log y - \frac{1}{4} \log y + 2 \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601062

1. $\frac{1}{2} \log x - 5 \log y =$

6. $5 \log x + \log z =$

2. $\frac{2}{3} \log x - \frac{1}{3} \log y + \frac{3}{4} \log z =$

7. $\frac{2}{3} \log x - \frac{1}{4} \log z =$

3. $\frac{2}{3} \log x - \frac{3}{4} \log x + 3 \log z =$

8. $\frac{1}{3} \log x - 3 \log y =$

4. $5 \log x + \frac{3}{4} \log y - 5 \log x =$

9. $\frac{1}{2} \log x - 3 \log y =$

5. $2 \log x - \frac{1}{4} \log y =$

10. $\frac{1}{2} \log x - 5 \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601063

1. $\frac{1}{2} \log x + 5 \log y =$

6. $5 \log y - 4 \log y =$

2. $\frac{1}{3} \log x + \frac{1}{4} \log z - \frac{2}{3} \log z =$

7. $\frac{1}{3} \log x - \log z =$

3. $\frac{2}{3} \log x + 3 \log x =$

8. $\frac{1}{4} \log x + \frac{1}{2} \log x - 3 \log z =$

4. $\frac{2}{3} \log x - \frac{2}{3} \log x =$

9. $\frac{1}{3} \log x - 4 \log y + \frac{2}{3} \log y =$

5. $\frac{2}{3} \log x - \frac{3}{4} \log y - 3 \log x =$

10. $\frac{2}{3} \log x + \frac{3}{4} \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601064

1. $2 \log x - 5 \log y - \frac{2}{3} \log z =$

6. $\frac{3}{4} \log y + 5 \log y =$

2. $\frac{1}{4} \log y - 3 \log y + \log z =$

7. $4 \log z - 3 \log y =$

3. $\frac{1}{2} \log x + \log y - \frac{3}{4} \log z =$

8. $\frac{1}{3} \log x + 4 \log y =$

4. $\frac{1}{2} \log x + 3 \log z - \frac{2}{3} \log z =$

9. $4 \log z - \frac{1}{3} \log y - \frac{3}{4} \log z =$

5. $4 \log x - 5 \log y + \frac{1}{4} \log x =$

10. $\frac{3}{4} \log x - \frac{1}{4} \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601065

1. $2 \log z + \frac{3}{4} \log y + 3 \log z =$

6. $\frac{1}{4} \log x + \log z - 5 \log z =$

2. $5 \log x + 2 \log z + 3 \log z =$

7. $\frac{2}{3} \log z - \frac{1}{2} \log y + 2 \log z =$

3. $\frac{1}{4} \log y - 4 \log y - \frac{1}{4} \log z =$

8. $\frac{1}{2} \log y + \frac{1}{3} \log y - 4 \log z =$

4. $\frac{3}{4} \log x - 2 \log y =$

9. $3 \log x - \frac{2}{3} \log y =$

5. $\log x - \frac{1}{3} \log y - \frac{1}{2} \log y =$

10. $\frac{3}{4} \log z + 3 \log y - \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601066

1. $\frac{1}{2} \log x - 2 \log x - \frac{1}{4} \log z =$

6. $\frac{3}{4} \log x + 3 \log y =$

2. $2 \log x - 3 \log z =$

7. $\frac{1}{2} \log z - 3 \log y =$

3. $4 \log x + \frac{1}{4} \log y =$

8. $\frac{1}{2} \log x - \log y =$

4. $\frac{3}{4} \log x + 3 \log y =$

9. $5 \log x - 4 \log y =$

5. $\frac{1}{2} \log x + \log y =$

10. $\frac{1}{4} \log x + 4 \log x =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601067

1. $4 \log z - 5 \log y + \frac{3}{4} \log z =$

6. $4 \log z + 4 \log y =$

2. $\frac{1}{4} \log x + 3 \log y =$

7. $\frac{3}{4} \log z + 4 \log y =$

3. $2 \log x + 4 \log y - \frac{1}{3} \log z =$

8. $3 \log x + \frac{3}{4} \log y - \log x =$

4. $4 \log x + \frac{1}{4} \log x =$

9. $2 \log z + \frac{1}{3} \log y + 2 \log z =$

5. $\log y - 5 \log y + \frac{1}{4} \log z =$

10. $\frac{1}{4} \log x - 5 \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601068

1. $\frac{1}{2} \log x + \frac{1}{3} \log x =$

6. $3 \log x - 2 \log y - 4 \log z =$

2. $\log x - \frac{1}{3} \log y - 3 \log z =$

7. $\frac{1}{3} \log x + \frac{2}{3} \log x - \frac{2}{3} \log z =$

3. $\frac{3}{4} \log y - \frac{1}{4} \log y - 3 \log z =$

8. $3 \log z - 2 \log y =$

4. $5 \log x - 4 \log z + \frac{3}{4} \log z =$

9. $\frac{1}{4} \log y + \frac{1}{3} \log y + \frac{1}{4} \log z =$

5. $\frac{1}{4} \log x - \frac{1}{2} \log x =$

10. $\log x - \frac{1}{3} \log x + \frac{2}{3} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601069

1. $\frac{2}{3} \log x - 4 \log y =$

6. $\frac{1}{2} \log x - \frac{3}{4} \log y =$

2. $\frac{1}{2} \log x - 4 \log z - \frac{1}{3} \log z =$

7. $3 \log x - \frac{1}{4} \log y - 4 \log z =$

3. $\log x - \frac{1}{2} \log y =$

8. $5 \log z + \log y =$

4. $4 \log x - \frac{2}{3} \log x + 3 \log z =$

9. $\frac{1}{4} \log x - \log z - 2 \log z =$

5. $3 \log x + 4 \log y =$

10. $\frac{3}{4} \log z + \frac{1}{3} \log y + \frac{2}{3} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601070

1. $5 \log x - \frac{1}{3} \log y =$

6. $\frac{1}{3} \log x + \frac{1}{3} \log z =$

2. $\frac{1}{4} \log y + \log y =$

7. $\frac{1}{2} \log x - \log y - 3 \log z =$

3. $\frac{3}{4} \log x + \frac{1}{4} \log y - \frac{1}{4} \log z =$

8. $\frac{1}{2} \log y - 2 \log y =$

4. $\frac{1}{2} \log x + \frac{3}{4} \log y =$

9. $\frac{1}{3} \log x - \frac{1}{2} \log z =$

5. $4 \log x + \frac{1}{3} \log y =$

10. $3 \log x - 2 \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601071

1. $\frac{1}{4} \log x + 2 \log y - 5 \log y =$

6. $5 \log y + 5 \log y =$

2. $4 \log x - \frac{1}{2} \log y + 4 \log x =$

7. $\frac{3}{4} \log x - 4 \log y =$

3. $\frac{1}{2} \log z + 5 \log y - \frac{1}{3} \log z =$

8. $\frac{3}{4} \log x + \frac{1}{3} \log y =$

4. $3 \log x + 4 \log y =$

9. $4 \log x + 5 \log y =$

5. $2 \log z + 4 \log y + 4 \log z =$

10. $5 \log x - \frac{1}{3} \log y + \frac{1}{2} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601072

1. $\frac{1}{3} \log x - \frac{1}{4} \log y =$

6. $\log x + \frac{1}{2} \log y =$

2. $2 \log x - \frac{3}{4} \log y =$

7. $\frac{3}{4} \log x + \log y =$

3. $\frac{1}{4} \log x + \frac{1}{4} \log y =$

8. $3 \log z + \frac{1}{4} \log y + 4 \log z =$

4. $4 \log x + \frac{1}{2} \log y =$

9. $3 \log x + \log y + \frac{1}{3} \log z =$

5. $\frac{1}{2} \log x + 2 \log y =$

10. $\log x + \frac{1}{3} \log x - 3 \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601073

1. $\frac{3}{4} \log x + 5 \log y =$

6. $\frac{1}{2} \log x - 4 \log y - \frac{3}{4} \log x =$

2. $2 \log x + \frac{1}{2} \log y =$

7. $3 \log x + 3 \log y =$

3. $5 \log x + \frac{1}{2} \log y - 4 \log y =$

8. $4 \log x - \frac{1}{2} \log y =$

4. $\frac{1}{4} \log x - \frac{3}{4} \log x =$

9. $\frac{3}{4} \log x + \frac{1}{2} \log z =$

5. $\frac{2}{3} \log x + \frac{1}{2} \log y + \frac{1}{4} \log z =$

10. $\log x + 4 \log z + 5 \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601074

1. $\frac{3}{4} \log x + \frac{3}{4} \log z - 3 \log z =$

6. $5 \log z + 2 \log y =$

2. $\frac{1}{3} \log x + 5 \log y =$

7. $\frac{2}{3} \log x - 2 \log y - \frac{1}{4} \log z =$

3. $4 \log x - 3 \log x - \frac{1}{3} \log z =$

8. $2 \log x + \frac{1}{2} \log y =$

4. $\frac{1}{4} \log x + 5 \log z - \frac{3}{4} \log z =$

9. $\frac{1}{4} \log x + 4 \log y =$

5. $\frac{1}{4} \log x + \frac{2}{3} \log y + \frac{1}{2} \log z =$

10. $\log x - \frac{1}{4} \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601075

1. $2 \log y + 5 \log y + \log z =$

6. $\frac{2}{3} \log x + 4 \log y =$

2. $\frac{1}{2} \log x + 3 \log y =$

7. $\frac{3}{4} \log y - \frac{1}{4} \log y - \frac{3}{4} \log z =$

3. $4 \log y - \frac{1}{4} \log y =$

8. $4 \log x + \frac{1}{3} \log y - \frac{1}{2} \log y =$

4. $3 \log x - 2 \log y + 3 \log z =$

9. $\frac{1}{3} \log z + 3 \log y =$

5. $3 \log x - 5 \log y + 4 \log z =$

10. $\frac{2}{3} \log x + 2 \log y + \frac{1}{4} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601076

1. $4 \log y + \log y - \frac{3}{4} \log z =$

6. $4 \log x + 2 \log y - \frac{1}{2} \log z =$

2. $2 \log x + \frac{1}{4} \log y =$

7. $4 \log z - 4 \log y + \frac{3}{4} \log z =$

3. $\frac{1}{3} \log x - \log y - 2 \log z =$

8. $\frac{1}{3} \log x + \frac{3}{4} \log y - 4 \log z =$

4. $\frac{3}{4} \log x + 4 \log z =$

9. $3 \log x - 2 \log y + \frac{2}{3} \log z =$

5. $\frac{3}{4} \log x + 4 \log y =$

10. $\frac{1}{3} \log x + \frac{2}{3} \log y + 4 \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601077

1. $\frac{1}{2} \log x - \frac{2}{3} \log y =$

6. $4 \log x - \frac{1}{2} \log z + 5 \log z =$

2. $\frac{3}{4} \log x + 4 \log y + 5 \log y =$

7. $4 \log x + \frac{1}{2} \log y + \frac{1}{3} \log x =$

3. $\frac{1}{2} \log z + 2 \log y - 3 \log z =$

8. $5 \log x - \frac{1}{4} \log y =$

4. $4 \log x - \frac{1}{3} \log x - \frac{1}{3} \log z =$

9. $\log x + \frac{1}{3} \log y - \frac{1}{4} \log z =$

5. $\frac{1}{4} \log x - 2 \log x + \log z =$

10. $\frac{1}{4} \log x - \frac{3}{4} \log z - \frac{3}{4} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601078

1. $5 \log x - 3 \log x + \frac{2}{3} \log z =$

6. $\frac{3}{4} \log y - 5 \log y =$

2. $\frac{1}{2} \log z + 4 \log y - 5 \log z =$

7. $\frac{1}{3} \log x - \frac{1}{3} \log y =$

3. $\frac{1}{3} \log x + 4 \log y - 3 \log z =$

8. $2 \log x + \frac{1}{4} \log x =$

4. $\frac{1}{3} \log x + 2 \log y + \frac{3}{4} \log x =$

9. $\frac{1}{4} \log x + \frac{1}{3} \log y =$

5. $\frac{3}{4} \log x - \frac{3}{4} \log y =$

10. $5 \log x + 4 \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601079

1. $\frac{2}{3} \log y - \log y =$

6. $\frac{3}{4} \log x - \frac{1}{3} \log y =$

2. $\frac{1}{4} \log x - 4 \log y - \frac{1}{2} \log z =$

7. $\log x + 4 \log x - \log z =$

3. $\frac{1}{4} \log x + \frac{1}{3} \log z =$

8. $5 \log x - 3 \log x - 3 \log z =$

4. $2 \log y - 4 \log y =$

9. $4 \log y + 5 \log y =$

5. $4 \log x - 4 \log z + \log z =$

10. $\frac{1}{4} \log x - \frac{3}{4} \log x - \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601080

1. $4 \log x - 3 \log y - 3 \log z =$

6. $5 \log x - 2 \log y - 3 \log z =$

2. $\frac{3}{4} \log x - \frac{2}{3} \log x =$

7. $4 \log x + 2 \log x =$

3. $\log x + 4 \log y + 2 \log z =$

8. $\frac{1}{4} \log x + \frac{1}{3} \log y - \frac{3}{4} \log y =$

4. $\frac{1}{4} \log x - \frac{1}{4} \log y - 3 \log y =$

9. $\frac{3}{4} \log x + 4 \log y + 5 \log z =$

5. $4 \log z - \frac{3}{4} \log y =$

10. $\frac{1}{2} \log x - 4 \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601081

1. $4 \log x - \frac{3}{4} \log x =$

6. $3 \log x + \frac{2}{3} \log y + 3 \log x =$

2. $\log x - \frac{1}{2} \log x =$

7. $\frac{2}{3} \log x - 3 \log x - 4 \log z =$

3. $\frac{1}{4} \log x + 5 \log y - \frac{3}{4} \log z =$

8. $\frac{2}{3} \log x + 4 \log x + \frac{3}{4} \log z =$

4. $2 \log x - \frac{1}{2} \log y + \frac{1}{2} \log y =$

9. $\frac{1}{2} \log x - \log x - \frac{3}{4} \log z =$

5. $\frac{1}{3} \log x - 2 \log y =$

10. $3 \log x + \frac{3}{4} \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601082

1. $\log x + \frac{2}{3} \log y + \frac{1}{2} \log z =$

6. $\frac{1}{2} \log x - \log y =$

2. $5 \log x - \frac{3}{4} \log y =$

7. $\frac{1}{3} \log x + \frac{1}{2} \log y =$

3. $5 \log x + \frac{2}{3} \log y - 4 \log y =$

8. $\frac{1}{4} \log x + \frac{2}{3} \log x - \frac{2}{3} \log z =$

4. $3 \log x + \frac{3}{4} \log x - \frac{2}{3} \log z =$

9. $\frac{2}{3} \log x + 3 \log y - 2 \log z =$

5. $3 \log x - \frac{1}{3} \log y =$

10. $\frac{1}{2} \log x - 3 \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601083

1. $2 \log x - \log x =$

6. $3 \log y + \frac{1}{3} \log y =$

2. $2 \log x + 2 \log y + 5 \log z =$

7. $4 \log x + \log z =$

3. $\frac{1}{4} \log x + \frac{3}{4} \log y - \log y =$

8. $3 \log y + \frac{2}{3} \log y =$

4. $4 \log x - \frac{3}{4} \log y =$

9. $\frac{1}{3} \log x + \log y + 5 \log x =$

5. $\log x + 2 \log y =$

10. $\log x - 5 \log x + 2 \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601084

1. $\frac{1}{3} \log x - 2 \log z =$

6. $2 \log x + \frac{2}{3} \log y =$

2. $3 \log x - 3 \log z - \frac{2}{3} \log z =$

7. $\frac{3}{4} \log x + 5 \log z + \frac{1}{2} \log z =$

3. $\frac{1}{2} \log x + \frac{1}{2} \log y - \frac{2}{3} \log y =$

8. $\frac{1}{2} \log y + \frac{1}{3} \log y =$

4. $\log x - 3 \log y =$

9. $\log x - 4 \log y =$

5. $\frac{1}{4} \log y - \frac{3}{4} \log y + \frac{1}{3} \log z =$

10. $\log z + \frac{3}{4} \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601085

1. $2 \log x + 4 \log y =$

6. $\frac{1}{2} \log x - 4 \log y + \frac{2}{3} \log z =$

2. $3 \log x - \frac{3}{4} \log y =$

7. $2 \log x - 2 \log y + \frac{2}{3} \log z =$

3. $\frac{2}{3} \log z + 5 \log y =$

8. $\frac{1}{2} \log y - \frac{3}{4} \log y - 3 \log z =$

4. $\frac{2}{3} \log z + 3 \log y =$

9. $\log x - 4 \log y =$

5. $\frac{1}{4} \log x - \frac{3}{4} \log y - \frac{2}{3} \log z =$

10. $3 \log x + \frac{3}{4} \log x + \frac{1}{3} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601086

1. $4 \log x + \frac{2}{3} \log y + \frac{2}{3} \log z =$

6. $5 \log x + 2 \log y =$

2. $\frac{1}{2} \log x + 4 \log z =$

7. $\frac{1}{2} \log x + \log y =$

3. $\frac{1}{2} \log z - 3 \log y + \frac{1}{3} \log z =$

8. $4 \log z + \frac{1}{3} \log y =$

4. $3 \log y - 5 \log y + 3 \log z =$

9. $\log x + 2 \log y =$

5. $3 \log x - 4 \log z =$

10. $2 \log z - \frac{2}{3} \log y + 2 \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601087

1. $\frac{2}{3} \log x - \frac{1}{2} \log y - \frac{3}{4} \log z =$

6. $\frac{1}{4} \log x + \log x - \frac{1}{4} \log z =$

2. $2 \log x - \log y + \frac{1}{3} \log z =$

7. $\frac{1}{2} \log x + \log y =$

3. $\log x - \frac{1}{3} \log y + \frac{1}{2} \log x =$

8. $\frac{1}{2} \log z + \frac{3}{4} \log y - \frac{1}{3} \log z =$

4. $3 \log x + 4 \log y =$

9. $\frac{3}{4} \log y + \frac{2}{3} \log y =$

5. $\frac{1}{2} \log x - 3 \log y - \log z =$

10. $2 \log y + 2 \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601088

1. $\frac{1}{2} \log x - 5 \log y =$

6. $\frac{1}{4} \log x - \frac{1}{4} \log y - \frac{1}{3} \log x =$

2. $\frac{1}{3} \log z + 4 \log y + \frac{1}{3} \log z =$

7. $\frac{1}{4} \log x - 4 \log y - 2 \log z =$

3. $\frac{1}{2} \log x + 2 \log x =$

8. $4 \log x - 5 \log z =$

4. $\frac{3}{4} \log x - \frac{3}{4} \log y =$

9. $\log y + \frac{1}{2} \log y - \log z =$

5. $2 \log x - \frac{3}{4} \log y - \log x =$

10. $\frac{1}{2} \log x + 5 \log y + \frac{1}{3} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601089

1. $\frac{1}{3} \log x + 5 \log y - \frac{3}{4} \log z =$

6. $5 \log x + \frac{1}{2} \log y - 5 \log z =$

2. $\frac{3}{4} \log y + \frac{1}{2} \log y + \frac{2}{3} \log z =$

7. $\frac{2}{3} \log y - \frac{1}{3} \log y + \frac{3}{4} \log z =$

3. $3 \log x - \frac{1}{2} \log y =$

8. $4 \log z + 2 \log y + 5 \log z =$

4. $4 \log x + 5 \log z + \frac{1}{3} \log z =$

9. $\log x + 4 \log y =$

5. $\frac{1}{2} \log z - 4 \log y =$

10. $\frac{2}{3} \log x + \frac{2}{3} \log z - \frac{1}{2} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601090

1. $5 \log z - 2 \log y =$

6. $2 \log x + 5 \log z =$

2. $\frac{1}{4} \log y - 4 \log y =$

7. $4 \log x + \frac{1}{4} \log y =$

3. $\frac{1}{3} \log x - \frac{3}{4} \log z =$

8. $4 \log x - \frac{2}{3} \log y =$

4. $3 \log x + \frac{1}{2} \log y - \frac{1}{2} \log x =$

9. $\frac{2}{3} \log x + 5 \log y + 4 \log x =$

5. $\frac{1}{2} \log x + \frac{1}{2} \log y =$

10. $4 \log y + \frac{1}{3} \log y + \frac{3}{4} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601091

1. $\frac{1}{4} \log x - \frac{1}{2} \log z =$

6. $\frac{1}{3} \log x + 2 \log y - 5 \log y =$

2. $\frac{2}{3} \log x + \frac{1}{3} \log y - 4 \log x =$

7. $\frac{3}{4} \log x + \frac{1}{3} \log y =$

3. $4 \log x - \frac{1}{4} \log x =$

8. $\log z + \frac{3}{4} \log y + \log z =$

4. $5 \log x + \frac{1}{4} \log y =$

9. $2 \log x - 2 \log y + 4 \log z =$

5. $5 \log x + \frac{3}{4} \log y =$

10. $\frac{3}{4} \log x - \frac{1}{3} \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601092

1. $\frac{2}{3} \log x - \frac{2}{3} \log y =$

6. $\frac{1}{3} \log x + 4 \log y - \frac{3}{4} \log z =$

2. $\frac{1}{2} \log z + 5 \log y + \frac{3}{4} \log z =$

7. $4 \log x - \frac{1}{4} \log y - \frac{3}{4} \log x =$

3. $\frac{1}{3} \log x + \frac{1}{4} \log z - \frac{1}{4} \log z =$

8. $\frac{2}{3} \log x + \log x + 4 \log z =$

4. $\frac{3}{4} \log x + \log x - \frac{2}{3} \log z =$

9. $5 \log x - \log x - \frac{3}{4} \log z =$

5. $\frac{3}{4} \log y + \frac{2}{3} \log y =$

10. $4 \log z + \frac{3}{4} \log y + \frac{1}{4} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601093

1. $4 \log x - 5 \log y =$

6. $4 \log x + \frac{3}{4} \log y + \frac{1}{4} \log z =$

2. $2 \log x + \frac{2}{3} \log y + 3 \log y =$

7. $\frac{1}{2} \log x - \frac{3}{4} \log y =$

3. $3 \log x - \frac{3}{4} \log z - 2 \log z =$

8. $\frac{2}{3} \log x + \frac{1}{2} \log y + \frac{1}{3} \log x =$

4. $\frac{2}{3} \log z + 4 \log y =$

9. $5 \log x - 3 \log y =$

5. $\log x - \frac{1}{3} \log y + \frac{2}{3} \log z =$

10. $2 \log z - \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601094

1. $3 \log x + 3 \log y + \frac{1}{3} \log y =$

6. $\frac{1}{4} \log x - \frac{2}{3} \log x - \frac{2}{3} \log z =$

2. $3 \log x - \log y =$

7. $3 \log x - 4 \log x =$

3. $3 \log x - 5 \log x + \frac{2}{3} \log z =$

8. $\frac{2}{3} \log x + 2 \log x =$

4. $5 \log x - 3 \log y =$

9. $\frac{1}{4} \log x + \frac{1}{4} \log y + \frac{1}{2} \log z =$

5. $\frac{1}{4} \log x + \frac{1}{2} \log x =$

10. $\frac{1}{2} \log x + 4 \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601095

1. $4 \log y - 2 \log y =$

6. $3 \log x + \frac{1}{3} \log y - 2 \log z =$

2. $\frac{2}{3} \log x - 2 \log y - \frac{2}{3} \log z =$

7. $4 \log x + \frac{3}{4} \log z =$

3. $\frac{1}{2} \log z + 4 \log y =$

8. $\frac{3}{4} \log x + \frac{2}{3} \log y =$

4. $4 \log x + \frac{3}{4} \log y - 2 \log x =$

9. $\frac{1}{4} \log x + 4 \log y - \frac{1}{3} \log z =$

5. $\frac{1}{2} \log x - 3 \log x + \frac{1}{2} \log z =$

10. $4 \log y + \frac{1}{3} \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601096

1. $\frac{2}{3} \log x + 3 \log z - \frac{1}{4} \log z =$

6. $4 \log x + \frac{2}{3} \log x - \frac{3}{4} \log z =$

2. $5 \log x - 3 \log x - \frac{1}{2} \log z =$

7. $\frac{3}{4} \log x + 2 \log x =$

3. $5 \log z - \frac{1}{4} \log y =$

8. $\frac{1}{4} \log x + \frac{2}{3} \log x =$

4. $\frac{1}{4} \log x - 4 \log y - 2 \log z =$

9. $2 \log x + \frac{3}{4} \log y =$

5. $\frac{1}{3} \log x + \frac{2}{3} \log y =$

10. $\frac{1}{4} \log x - \frac{2}{3} \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601097

1. $\frac{1}{3} \log z - 3 \log y =$

6. $\frac{1}{2} \log x + \frac{3}{4} \log x =$

2. $\log x + \frac{1}{2} \log z =$

7. $\log x + \frac{1}{3} \log y =$

3. $4 \log x + \frac{1}{4} \log y =$

8. $2 \log x + \log x - 5 \log z =$

4. $4 \log x - \frac{1}{2} \log z =$

9. $\frac{1}{3} \log x - 4 \log y + 4 \log z =$

5. $\frac{3}{4} \log x - 5 \log x - \frac{1}{4} \log z =$

10. $5 \log y + \log y - \frac{3}{4} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601098

1. $3 \log x - \frac{1}{4} \log y =$

6. $\frac{1}{4} \log x + 3 \log y =$

2. $\log y + 2 \log y =$

7. $5 \log y + 4 \log y - \frac{2}{3} \log z =$

3. $\frac{1}{2} \log y + 3 \log y =$

8. $\frac{3}{4} \log x + \frac{1}{2} \log x - \frac{3}{4} \log z =$

4. $3 \log z + \frac{2}{3} \log y + 5 \log z =$

9. $\frac{1}{2} \log x + \frac{1}{3} \log y + \frac{1}{4} \log z =$

5. $\frac{2}{3} \log z + 2 \log y + 2 \log z =$

10. $\frac{3}{4} \log x - 2 \log y =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601099

1. $\frac{1}{2} \log x - \log y =$

6. $\frac{1}{3} \log x - 4 \log y =$

2. $\frac{1}{4} \log x - \log y - \frac{2}{3} \log y =$

7. $\frac{1}{4} \log y - 2 \log y =$

3. $\log x + \log y - \frac{1}{2} \log z =$

8. $2 \log x - 5 \log z =$

4. $3 \log z - \frac{1}{3} \log y =$

9. $4 \log z + \frac{1}{3} \log y =$

5. $4 \log y - 5 \log y - \frac{1}{3} \log z =$

10. $4 \log z + \frac{1}{3} \log y + \frac{3}{4} \log z =$

Put into a single log of coefficient 1.
Simplify if possible.

Document No.LCB2601100

1. $\frac{2}{3} \log x - 2 \log y - \frac{2}{3} \log z =$

6. $\frac{3}{4} \log x + \frac{2}{3} \log x - \frac{2}{3} \log z =$

2. $\frac{2}{3} \log z + \frac{1}{3} \log y - 4 \log z =$

7. $\frac{2}{3} \log x + 5 \log x =$

3. $\frac{1}{3} \log x + 5 \log y =$

8. $\frac{1}{2} \log x - \frac{3}{4} \log x =$

4. $\frac{3}{4} \log x + 4 \log y + \frac{1}{4} \log y =$

9. $4 \log x + \frac{1}{4} \log y + 5 \log z =$

5. $4 \log z + \frac{3}{4} \log y + \log z =$

10. $\frac{1}{3} \log x - 4 \log z - \frac{1}{4} \log z =$

Document No. LCB2601001

1. $\log(x^2 z^4)$
2. $\log\left(\frac{x^2}{\sqrt[3]{y}}\right)$
3. $\log(x^4 z^5)$
4. $-\log(\sqrt{y} z^3)$
5. $\log\left(\frac{x^2}{z^5}\right)$
6. $\log(x^{\frac{5}{4}})$
7. $\log\left(\frac{x^2 z}{\sqrt[4]{y}}\right)$
8. $\log(x^2 y^{\frac{2}{3}})$
9. $\log(x^3 z^5)$
10. $\log\left(y^{\frac{3}{4}} z^{\frac{3}{4}}\right)$

Document No. LCB2601002

1. $\log\left(\frac{x^{\frac{8}{3}}}{\sqrt[3]{y}}\right)$
2. $\log\left(\frac{\sqrt[4]{x}}{\sqrt[3]{y}}\right)$
3. $\log(x^{\frac{16}{3}})$
4. $\log(x^4 y^3)$
5. $\log\left(\frac{x^5 y}{z^3}\right)$
6. $\log\left(\frac{x \sqrt[4]{y}}{\sqrt[3]{z}}\right)$
7. $\log(x^{\frac{16}{3}})$
8. $\log(y^2)$
9. $\log(x^{\frac{4}{3}} z^5)$
10. $\log(x^5 y^2)$

Document No. LCB2601003

1. $\log\left(\frac{z^5}{\sqrt[3]{y}}\right)$
2. $\log\left(\frac{x^4 z^3}{\sqrt[4]{y}}\right)$
3. $\log(y^{\frac{8}{3}})$
4. $\log\left(\frac{x^5 y^2}{z^{\frac{3}{4}}}\right)$
5. $\log(x^{\frac{9}{2}})$
6. $-\log(x^{\frac{13}{3}} y^5)$
7. $\log\left(\frac{x^{\frac{2}{3}} y^5}{\sqrt[3]{z}}\right)$
8. $\log(x^{\frac{17}{3}})$
9. $-\log(x^{\frac{8}{3}} y^4)$
10. $\log(x^{\frac{3}{4}} y)$

Document No. LCB2601004

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

2. $\log\left(\frac{\sqrt{z}}{y}\right)$
3. $-\log(x^{\frac{10}{3}})$
4. $\log(x^{\frac{10}{3}} z^3)$
5. $\log\left(\frac{\sqrt[4]{xz^3}}{y^{\frac{3}{4}}}\right)$
6. $\log(\sqrt[3]{x} \sqrt[4]{y})$
7. $\log(\sqrt[4]{x} z^{\frac{7}{2}})$
8. $\log\left(\frac{\sqrt{x}}{\sqrt[3]{y}}\right)$
9. $\log(\sqrt[3]{y})$
10. $\log\left(\frac{\sqrt{xz}}{y^5}\right)$

Document No. LCB2601005

1. $\log\left(\frac{x^2}{y^5}\right)$
2. $\log(x^4 y)$
3. $\log\left(\frac{z^{\frac{2}{3}}}{y^3}\right)$
4. $\log\left(\frac{x^3}{y^{\frac{3}{4}} z^2}\right)$
5. $\log\left(\frac{\sqrt{z}}{y}\right)$
6. $\log\left(\frac{z^{\frac{3}{4}}}{y^{\frac{3}{4}}}\right)$
7. $\log\left(\frac{\sqrt{x}}{\sqrt{y}}\right)$
8. $\log\left(\frac{y}{z^{\frac{2}{3}}}\right)$
9. $\log(x^4 z^5)$
10. $\log(\sqrt{x} z^{\frac{3}{4}})$

Document No. LCB2601006

1. $\log(x^{\frac{3}{4}} y^5)$
2. $\log\left(\frac{x^5 \sqrt[3]{z}}{y^5}\right)$
3. $\log(x^4 \sqrt[3]{y})$
4. $\log(x^8)$
5. $\log\left(\frac{x^5}{z^{\frac{11}{4}}}\right)$
6. $\log(\sqrt[4]{x} \sqrt{y})$
7. $\log\left(\frac{x^2}{\sqrt[3]{y}}\right)$
8. $-\log(y^{\frac{3}{2}} \sqrt[4]{z})$
9. $\log\left(\frac{\sqrt[3]{z}}{y^{\frac{5}{2}}}\right)$
10. $\log(x^{\frac{7}{2}} z^2)$

Document No. LCB2601007

1. $\log(\sqrt[4]{xz})$

2. $\log\left(\frac{x^{\frac{3}{4}}}{\sqrt{z}}\right)$
3. $\log\left(\frac{x^2}{\sqrt[3]{z}}\right)$
4. $-\log\left(x^{\frac{13}{3}}\right)$
5. $\log\left(x^5\sqrt{y}z^4\right)$
6. $\log\left(\frac{z^4}{x^{\frac{4}{4}}}\right)$
7. $\log\left(\frac{x}{y^5}\right)$
8. $\log\left(\frac{x^7}{z^{\frac{2}{3}}}\right)$
9. $\log\left(\frac{x^4}{\sqrt[3]{y}}\right)$
10. $-\log\left(x^{\frac{7}{2}}\right)$

Document No. LCB2601008

1. $\log\left(\frac{x^5y^5}{z^{\frac{2}{3}}}\right)$
2. $\log\left(x^{\frac{3}{4}}z^2\right)$
3. $\log\left(\frac{\sqrt[3]{x}}{\sqrt{y}}\right)$
4. $\log\left(x^{\frac{3}{4}}\sqrt{z}\right)$
5. $\log\left(\frac{x^{\frac{23}{4}}}{\sqrt{y}}\right)$
6. $-\log\left(\sqrt[3]{y}z^3\right)$
7. $\log\left(\sqrt{x}\sqrt[12]{y}\right)$
8. $\log\left(\frac{\sqrt[3]{x}}{y^2z^{\frac{3}{4}}}\right)$
9. $\log\left(y^3z^{\frac{5}{3}}\right)$
10. $\log\left(y^3\sqrt[4]{z}\right)$

Document No. LCB2601009

1. $\log\left(\frac{\sqrt{x}}{y^4}\right)$
2. $\log\left(\frac{\sqrt[4]{x}}{z^{\frac{4}{4}}}\right)$
3. $\log\left(\sqrt[4]{xy^4}\right)$
4. $\log\left(y^{\frac{3}{2}}\right)$
5. $\log\left(\sqrt[4]{xy^4}\right)$
6. $\log\left(\frac{x^5}{y^3}\right)$
7. $\log\left(x^4y^{\frac{2}{3}}z^3\right)$
8. $\log\left(\frac{x^2}{\sqrt[4]{y}}\right)$
9. $\log\left(\sqrt{y}z^{\frac{2}{3}}\right)$
10. $\log\left(\frac{x}{\sqrt{y}}\right)$

Document No. LCB2601010

1. $\log\left(x^5\right)$

2. $-\log\left(y^{\frac{13}{4}}\right)$
3. $\log\left(\frac{y^{\frac{7}{2}}}{z^3}\right)$
4. $\log\left(\frac{x^5}{z^{\frac{12}{5}}}\right)$
5. $\log\left(x^{\frac{3}{4}}\sqrt[3]{y}\right)$
6. $\log\left(xy^3\right)$
7. $\log\left(\sqrt{x}\sqrt{y}\right)$
8. $\log\left(\frac{\sqrt[4]{x}}{\sqrt[3]{z}}\right)$
9. $\log\left(\frac{x^2}{y^5}\right)$
10. $\log\left(x^5z\right)$

Document No. LCB2601011

1. $\log\left(\sqrt[4]{xy^4}\right)$
2. $\log\left(x\sqrt{z}\right)$
3. $-\log\left(y\right)$
4. $\log\left(x^3y^{\frac{14}{3}}\right)$
5. $\log\left(x^{\frac{4}{3}}\right)$
6. $\log\left(y^5z^{\frac{10}{3}}\right)$
7. $\log\left(\frac{x^{\frac{3}{4}}y}{z^{\frac{3}{4}}}\right)$
8. $\log\left(\frac{\sqrt[4]{x}}{\sqrt{y}}\right)$
9. $\log\left(y^3z^{\frac{10}{3}}\right)$
10. $\log\left(x^{\frac{3}{4}}y^3z^4\right)$

Document No. LCB2601012

1. $\log\left(\frac{y^8}{z^{\frac{4}{4}}}\right)$
2. $\log\left(x^5y^{\frac{2}{3}}\right)$
3. $\log\left(x^{\frac{3}{4}}\sqrt{yz^2}\right)$
4. $-\log\left(xz^4\right)$
5. $\log\left(\frac{\sqrt{x}}{\sqrt[3]{yz^4}}\right)$
6. $\log\left(x^5\sqrt[4]{y}\right)$
7. $\log\left(y^2\right)$
8. $-\log\left(\sqrt[12]{xz^{\frac{2}{3}}}\right)$
9. $\log\left(y^{\frac{11}{4}}z\right)$
10. $\log\left(y^{\frac{15}{4}}\right)$

Document No. LCB2601013

1. $\log\left(y^{\frac{8}{3}}z^4\right)$
2. $\log\left(\frac{z^{\frac{3}{4}}}{x^{\frac{4}{4}}}\right)$
3. $\log\left(x^{\frac{21}{4}}\right)$

4. $-\log(x^{\frac{9}{2}})$
5. $\log\left(\frac{y^{\frac{23}{4}}}{z^2}\right)$
6. $\log\left(\frac{\sqrt[3]{x}}{y}\right)$
7. $\log(x^5 z^{\frac{5}{12}})$
8. $-\log(\sqrt[3]{y})$
9. $\log(x^4 y)$
10. $\log\left(\frac{x^3}{y}\right)$

Document No. LCB2601014

1. $\log\left(\frac{x^3}{z^{\frac{3}{2}}}\right)$
2. $\log(x^{\frac{3}{4}} \sqrt[3]{y})$
3. $\log\left(\frac{\sqrt[3]{x}}{z^{\frac{23}{4}}}\right)$
4. $\log\left(\frac{x^5}{\sqrt{yz^2}}\right)$
5. $\log\left(\frac{x^4}{y^{\frac{4}{9}}}\right)$
6. $\log\left(\frac{x^3}{y^5 z^{\frac{2}{3}}}\right)$
7. $\log\left(\frac{\sqrt{x}}{z^2}\right)$
8. $\log\left(\frac{x^{\frac{2}{3}}}{\sqrt[4]{yz^{\frac{3}{4}}}}\right)$
9. $\log(x^4 y^{\frac{2}{3}} z^5)$
10. $\log\left(\frac{x}{z^{\frac{23}{4}}}\right)$

Document No. LCB2601015

1. $\log\left(\frac{x^4}{y^4}\right)$
2. $\log\left(\frac{x^{\frac{3}{4}}}{y^2 z}\right)$
3. $\log(y^{\frac{3}{4}})$
4. $\log\left(\frac{x^2}{y^{\frac{11}{4}}}\right)$
5. $\log\left(\frac{x^4}{\sqrt{yz^4}}\right)$
6. $\log(x^{\frac{2}{3}} \sqrt[3]{z})$
7. $\log(y^2 \sqrt[3]{z})$
8. $\log(x^{\frac{2}{3}} y^{10})$
9. $\log\left(\frac{xz}{y^2}\right)$
10. $\log(\sqrt[4]{xy^5})$

Document No. LCB2601016

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

3. $\log\left(\frac{x}{\sqrt[3]{yz}}\right)$
4. $\log\left(\frac{z^{\frac{3}{4}}}{y^5}\right)$
5. $-\log(\sqrt[12]{x})$
6. $\log\left(\frac{x^{\frac{3}{4}}}{y^5}\right)$
7. $\log(x^{\frac{4}{3}} z^3)$
8. $\log\left(\frac{x^5}{z^5}\right)$
9. $\log\left(\frac{x^{\frac{3}{4}}}{z}\right)$
10. $\log(x^{\frac{17}{12}} y^{\frac{2}{3}})$

Document No. LCB2601017

1. $\log\left(\frac{\sqrt{x}}{y^5}\right)$
2. $\log\left(\frac{x}{y\sqrt{z}}\right)$
3. $\log(\sqrt[3]{xz^{\frac{11}{3}}})$
4. $\log(x^{\frac{2}{3}} y^5)$
5. $\log(x^5 \sqrt[6]{z})$
6. $\log\left(\frac{x^5 \sqrt[3]{y}}{z^2}\right)$
7. $\log(\sqrt[4]{xy^3 z^3})$
8. $\log(x^4 y^{\frac{2}{3}} z^4)$
9. $\log\left(\frac{\sqrt{xy^4}}{z}\right)$
10. $-\log(x^{\frac{5}{3}})$

Document No. LCB2601018

1. $\log(x^2 y^{\frac{5}{12}})$
2. $\log(x^{\frac{2}{3}})$
3. $\log\left(\frac{x^3 y^2}{z^5}\right)$
4. $\log\left(\frac{z^{\frac{13}{3}}}{\sqrt{y}}\right)$
5. $\log(x^{\frac{7}{3}} z^2)$
6. $\log\left(\frac{x^{\frac{3}{4}}}{y^3}\right)$
7. $\log(x^{\frac{7}{12}} y^2)$
8. $\log\left(\frac{x^2}{y^6}\right)$
9. $\log\left(\frac{\sqrt[4]{x}}{z^{\frac{11}{12}}}\right)$
10. $\log\left(\frac{x^4}{y^{\frac{19}{4}}}\right)$

Document No. LCB2601019

1. $\log(xy^{\frac{2}{3}})$
2. $\log(x^{\frac{5}{12}} z^3)$
3. $\log(x^{\frac{7}{3}})$

4. $\log\left(\frac{\sqrt{x}}{z^{\frac{8}{3}}}\right)$
5. $\log\left(x^{\frac{4}{3}}\right)$
6. $\log\left(x^5 y^2\right)$
7. $\log\left(\frac{\sqrt{x}}{y^{\frac{2}{3}}}\right)$
8. $\log\left(\frac{x^{\frac{17}{3}}}{z^{\frac{2}{3}}}\right)$
9. $\log\left(\frac{\sqrt{xz}}{y^2}\right)$
10. $\log\left(\frac{x^{\frac{3}{4}}}{\sqrt[4]{y}}\right)$

Document No. LCB2601020

1. $-\log\left(y^{\frac{13}{4}}\right)$
2. $\log\left(\frac{x^5}{\sqrt[4]{y}}\right)$
3. $\log\left(\frac{\sqrt{xy}}{\sqrt{z}}\right)$
4. $\log\left(\sqrt{xy} y^2\right)$
5. $\log\left(x^2 \sqrt{z}\right)$
6. $\log\left(\sqrt[4]{yz^{\frac{11}{3}}}\right)$
7. $\log\left(x^5 y z^3\right)$
8. $\log\left(x^{\frac{2}{3}} \sqrt{y}\right)$
9. $\log\left(x^{\frac{3}{4}} z^{\frac{13}{4}}\right)$
10. $\log\left(x^3 \sqrt[3]{y}\right)$

Document No. LCB2601021

1. $\log\left(\frac{\sqrt[4]{x}}{y^{\frac{2}{3}}}\right)$
2. $\log\left(\frac{\sqrt[3]{x}}{y^{\frac{3}{4}}}\right)$
3. $\log\left(z^3\right)$
4. $\log\left(\frac{\sqrt[4]{z}}{y}\right)$
5. $\log\left(\frac{\sqrt[3]{x}}{\sqrt[3]{z}}\right)$
6. $\log\left(y^4 \sqrt[4]{z}\right)$
7. $\log\left(x^5 y^{\frac{13}{4}}\right)$
8. $\log\left(\frac{x^5 \sqrt[4]{y}}{z^2}\right)$
9. $\log\left(\frac{x^3 y^5}{z}\right)$
10. $\log\left(\frac{x^2}{y^5}\right)$

Document No. LCB2601022

1. $\log\left(\frac{x^{\frac{3}{4}} z^{\frac{2}{3}}}{\sqrt[3]{y}}\right)$
2. $\log\left(x^5 y^{\frac{7}{12}}\right)$
3. $\log\left(\frac{x^5 z}{y^4}\right)$
4. $\log\left(x^5 y^{\frac{13}{12}}\right)$

5. $\log\left(\frac{z^{\frac{13}{3}}}{y^2}\right)$
6. $\log\left(\frac{x^{\frac{2}{3}} z^5}{y^3}\right)$
7. $\log\left(\frac{x^5 \sqrt[4]{y}}{z^5}\right)$
8. $\log\left(\frac{x^{\frac{14}{3}}}{z^{\frac{2}{3}}}\right)$
9. $\log\left(\frac{z^4}{y^5}\right)$
10. $\log\left(x^{\frac{2}{3}} \sqrt{y} \sqrt[3]{z}\right)$

Document No. LCB2601023

1. $\log\left(\frac{x^{\frac{3}{4}}}{\sqrt[3]{y}}\right)$
2. $\log\left(\frac{x^2}{\sqrt[3]{y}}\right)$
3. $\log\left(xz^3\right)$
4. $\log\left(\frac{x^5}{y^2 z^5}\right)$
5. $\log\left(\frac{x^3}{y^4 z^5}\right)$
6. $\log\left(\frac{z}{y^2}\right)$
7. $\log\left(\frac{x^5 y^{\frac{3}{4}}}{z^4}\right)$
8. $\log\left(\sqrt[4]{xy^{\frac{2}{3}} z^{\frac{3}{4}}}\right)$
9. $\log\left(\frac{x^{\frac{3}{4}} \sqrt[4]{z}}{y^4}\right)$
10. $\log\left(\frac{x^{\frac{14}{3}}}{\sqrt[3]{z}}\right)$

Document No. LCB2601024

1. $\log\left(x^4 \sqrt{y} \sqrt[3]{z}\right)$
2. $\log\left(\frac{x^{\frac{2}{3}}}{\sqrt[4]{y}}\right)$
3. $\log\left(x^{\frac{9}{2}}\right)$
4. $\log\left(\frac{x^{\frac{2}{3}} y^{\frac{2}{3}}}{\sqrt[3]{z}}\right)$
5. $\log\left(\frac{z}{\sqrt{y}}\right)$
6. $\log\left(\frac{x^3 z}{y^2}\right)$
7. $\log\left(\frac{x^{\frac{5}{12}}}{\sqrt{y}}\right)$
8. $\log\left(\frac{z}{y^2}\right)$
9. $\log\left(y^7 z^{\frac{2}{3}}\right)$
10. $\log\left(\frac{\sqrt[4]{z}}{y^5}\right)$

Document No. LCB2601025

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

3. $\log\left(\frac{x^{\frac{2}{3}}}{\sqrt[4]{yz^{\frac{3}{4}}}}\right)$
4. $\log\left(\frac{x^5}{\sqrt{y}}\right)$
5. $\log\left(x^5\sqrt[3]{yz^5}\right)$
6. $\log\left(y^{\frac{15}{4}}\right)$
7. $\log\left(\frac{x^3}{y}\right)$
8. $\log\left(x^5\sqrt{z}\right)$
9. $\log\left(\frac{\sqrt[4]{z}}{y}\right)$
10. $\log\left(x^2\right)$

Document No. LCB2601026

1. $\log\left(x^5z^{\frac{4}{3}}\right)$
2. $\log\left(\frac{y^9}{z^{\frac{3}{4}}}\right)$
3. $\log\left(\frac{\sqrt[3]{x}}{y^2}\right)$
4. $\log\left(\frac{x^{\frac{2}{3}}}{y^{\frac{3}{3}}}\right)$
5. $\log\left(\frac{x^3}{y^4}\right)$
6. $\log\left(y^{10}\right)$
7. $\log\left(x^{\frac{9}{2}}\right)$
8. $\log\left(y^{\frac{3}{4}}\sqrt[3]{z}\right)$
9. $\log\left(x^{\frac{3}{4}}y^{\frac{3}{2}}\right)$
10. $\log\left(\sqrt[3]{xz^{\frac{8}{3}}}\right)$

Document No. LCB2601027

1. $-\log\left(x^{\frac{7}{3}}\right)$
2. $\log\left(\frac{x^4}{\sqrt[3]{y}}\right)$
3. $\log\left(\sqrt{xy^{\frac{2}{3}}}\right)$
4. $\log\left(\frac{\sqrt[4]{z}}{\sqrt[4]{y}}\right)$
5. $\log\left(\frac{x}{y^{\frac{3}{2}}}\right)$
6. $\log\left(\frac{\sqrt{x}}{\sqrt{y}}\right)$
7. $\log\left(\frac{z^3}{12\sqrt{y}}\right)$
8. $\log\left(\sqrt[6]{x}\sqrt[4]{y}\right)$
9. $\log\left(\frac{x^2}{y}\right)$
10. $\log\left(\frac{\sqrt{x}}{\sqrt[4]{y}\sqrt{z}}\right)$

Document No. LCB2601028

1. $\log\left(x^5z^{\frac{3}{4}}\right)$
2. $\log\left(x^4\sqrt[3]{yz^4}\right)$
3. $\log\left(\sqrt{xy}\right)$

4. $\log\left(\frac{\sqrt[3]{x}}{y^{\frac{4}{4}}}\right)$
5. $\log\left(\sqrt[4]{xy^3}\right)$
6. $\log\left(\frac{y^{\frac{15}{4}}}{z^{\frac{3}{4}}}\right)$
7. $\log\left(\frac{x^4}{\sqrt[3]{z}}\right)$
8. $\log\left(\frac{x^{\frac{3}{4}}z^2}{\sqrt[4]{y}}\right)$
9. $\log\left(\frac{x}{y^{\frac{3}{4}}}\right)$
10. $\log\left(x^{\frac{2}{3}}\sqrt[4]{z}\right)$

Document No. LCB2601029

1. $\log\left(\frac{x^5}{z^3}\right)$
2. $\log\left(x^{\frac{17}{4}}y^{\frac{2}{3}}\right)$
3. $\log\left(\frac{\sqrt{x}}{\sqrt{y}}\right)$
4. $\log\left(\sqrt[4]{xy^5}\right)$
5. $\log\left(\frac{x^{\frac{3}{4}}y^2}{\sqrt{z}}\right)$
6. $\log\left(\frac{z^5}{\sqrt[4]{y}}\right)$
7. $\log\left(\frac{x^{\frac{2}{3}}}{\sqrt[3]{y}}\right)$
8. $\log\left(xy^{\frac{11}{3}}\right)$
9. $\log\left(\frac{z^{\frac{2}{3}}}{y^2}\right)$
10. $\log\left(y^{\frac{14}{3}}\right)$

Document No. LCB2601030

1. $-\log\left(x^{\frac{5}{4}}\right)$
2. $\log\left(\frac{x^3}{y^5}\right)$
3. $\log\left(\frac{x^{\frac{3}{4}}}{y^4}\right)$
4. $\log\left(\frac{x^{\frac{3}{4}}}{y^{\frac{3}{4}}}\right)$
5. $\log\left(x^5z^2\right)$
6. $\log\left(x^{\frac{2}{3}}y^{\frac{7}{6}}\right)$
7. $\log\left(\frac{\sqrt{x}}{y^{\frac{2}{3}}}\right)$
8. $\log\left(x^{\frac{7}{6}}y^5\right)$
9. $\log\left(\frac{\sqrt{xz}}{y^2}\right)$
10. $\log\left(y^4z^{\frac{3}{4}}\right)$

Document No. LCB2601031

1. $\log\left(\frac{x}{z^{\frac{5}{4}}}\right)$
2. $\log\left(x^{\frac{14}{3}}z^5\right)$

3. $\log \left(x^{\frac{5}{12}} \sqrt{z} \right)$
4. $\log \left(x^{\frac{23}{4}} \right)$
5. $\log \left(\frac{x^2}{z^{\frac{11}{4}}} \right)$
6. $\log \left(\frac{x^4}{y^4} \right)$
7. $\log \left(x^{\frac{7}{3}} \right)$
8. $\log (xy)$
9. $\log \left(\sqrt{x} \sqrt[4]{y} \right)$
10. $\log \left(\frac{z^4}{y^3} \right)$

Document No. LCB2601032

1. $\log \left(x^4 y^{\frac{16}{3}} \right)$
2. $\log \left(x^{\frac{13}{3}} \right)$
3. $\log (y)$
4. $\log \left(y^{\frac{3}{2}} \right)$
5. $\log \left(\frac{x^{\frac{2}{3}}}{y^3 z^3} \right)$
6. $\log \left(\sqrt[3]{y} z^5 \right)$
7. $\log \left(x^2 y^{\frac{2}{3}} \right)$
8. $-\log (z^2)$
9. $\log \left(\frac{x^3}{\sqrt[3]{y}} \right)$
10. $\log \left(x^4 y^{\frac{2}{3}} z^3 \right)$

Document No. LCB2601033

1. $\log \left(x^{\frac{3}{4}} \sqrt[4]{y} \right)$
2. $\log \left(\frac{z^3}{\sqrt[3]{y}} \right)$
3. $\log \left(x^{\frac{3}{4}} y^{\frac{3}{4}} \right)$
4. $\log \left(\sqrt[3]{xy^5} \right)$
5. $\log \left(\frac{x^{\frac{3}{4}} y^{\frac{3}{4}}}{\sqrt[4]{z}} \right)$
6. $\log \left(x^{\frac{3}{4}} y^4 \right)$
7. $\log \left(\frac{x^4}{\sqrt{y}} \right)$
8. $\log \left(\frac{x}{\sqrt[3]{z}} \right)$
9. $\log \left(\frac{\sqrt{x}}{y^3} \right)$
10. $\log \left(x^{\frac{3}{4}} y^4 z^2 \right)$

Document No. LCB2601034

1. $-\log \left(y^{\frac{5}{2}} \right)$
2. $\log \left(\frac{x^2}{y^4} \right)$
3. $\log \left(x^4 \sqrt{y} \right)$
4. $\log \left(\frac{x^2}{y} \right)$

5. $\log (y^2)$
6. 0
7. $\log \left(\sqrt[3]{xz^{\frac{2}{3}}} \right)$
8. $\log \left(y^{\frac{2}{3}} \sqrt[4]{z} \right)$
9. $\log \left(\frac{\sqrt[3]{x}}{y} \right)$
10. $-\log \left(\sqrt[3]{y} \right)$

Document No. LCB2601035

1. $\log \left(\frac{\sqrt[4]{x}}{z^{\frac{2}{3}}} \right)$
2. $\log \left(y^{\frac{8}{3}} \right)$
3. $\log \left(\frac{x^5}{\sqrt[12]{y}} \right)$
4. $\log \left(x^{\frac{2}{3}} z \right)$
5. $\log \left(\sqrt{x} \sqrt[3]{z} \right)$
6. $\log (xy^5)$
7. $\log (x^4 y^4 z^5)$
8. $\log \left(x^{\frac{9}{4}} \right)$
9. $\log (x^5 y^5 z)$
10. $\log \left(x^{\frac{15}{4}} \right)$

Document No. LCB2601036

1. $\log \left(x^{\frac{3}{2}} \sqrt{z} \right)$
2. $\log \left(\frac{\sqrt[3]{xy^{\frac{2}{3}}}}{z^5} \right)$
3. $\log (x^8)$
4. $\log \left(\frac{x}{y^3} \right)$
5. $\log \left(\frac{x^{\frac{13}{12}}}{z^{\frac{3}{4}}} \right)$
6. $\log \left(\frac{x}{y^{\frac{3}{4}}} \right)$
7. $\log \left(\sqrt{y} \right)$
8. $\log \left(\frac{\frac{3}{4}}{\frac{y}{\frac{2}{3}}} \right)$
9. $\log \left(\frac{\sqrt[4]{z}}{\sqrt[3]{x}} \right)$
10. $-\log \left(y^{\frac{3}{4}} z^{\frac{10}{3}} \right)$

Document No. LCB2601037

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

7. $\log(\sqrt[6]{x})$
8. $\log(\sqrt{x})$
9. $\log\left(\frac{z^5}{y^2}\right)$
10. $\log(x^4y)$

Document No. LCB2601038

1. $\log\left(\frac{x^{\frac{2}{3}}}{y^{\frac{4}{3}}}\right)$
2. $\log\left(\frac{\sqrt[4]{x}}{\sqrt[3]{y}}\right)$
3. $\log(\sqrt[12]{x})$
4. $\log\left(\frac{x^2}{\sqrt[3]{yz^5}}\right)$
5. $\log\left(y^{\frac{19}{4}}\right)$
6. $\log\left(y^{\frac{2}{3}}z\right)$
7. $\log(x^3)$
8. $\log\left(x\sqrt[4]{y}\right)$
9. $\log\left(\frac{x^3}{y}\right)$
10. $\log\left(x\sqrt[4]{y}\right)$

Document No. LCB2601039

1. $\log\left(\frac{\sqrt[4]{y}}{z^{\frac{3}{4}}}\right)$
2. $\log(\sqrt[4]{xy^4})$
3. $\log(x^4\sqrt{y})$
4. $\log\left(x^4y^{\frac{3}{4}}z\right)$
5. $\log\left(\frac{y^{\frac{14}{3}}}{\sqrt[4]{z}}\right)$
6. $\log\left(\frac{x^5}{z^3}\right)$
7. $\log\left(\frac{x^3}{z^5}\right)$
8. $-\log(\sqrt[4]{x})$
9. $\log\left(\frac{x^3}{y^5}\right)$
10. $\log\left(\frac{\sqrt{x}}{\sqrt[3]{yz^{\frac{3}{4}}}}\right)$

Document No. LCB2601040

1. $\log\left(\frac{y^4}{\sqrt{x}}\right)$
2. $\log\left(\frac{z^5}{\sqrt[3]{y}}\right)$
3. $\log\left(x^4y^{\frac{2}{3}}\right)$
4. $-\log(y^3)$
5. $\log\left(\frac{x^2z^4}{y^{\frac{3}{4}}}\right)$
6. $\log\left(\frac{x^3y^{\frac{3}{4}}}{z}\right)$
7. $\log(x^3)$
8. $\log\left(x^{\frac{3}{4}}y\right)$

9. $\log\left(\frac{x^{\frac{2}{3}}}{\sqrt{z}}\right)$
10. $\log\left(\frac{\sqrt{x}}{y}\right)$

Document No. LCB2601041

1. $\log\left(\frac{x^2z^5}{y^{\frac{2}{3}}}\right)$
2. $\log\left(\frac{x^3}{y^{\frac{11}{12}}}\right)$
3. $\log\left(\frac{x}{y^{\frac{2}{3}}\sqrt{z}}\right)$
4. $\log\left(\frac{x^4}{\sqrt[4]{y}}\right)$
5. $-\log\left(x^{\frac{5}{12}}\right)$
6. $\log\left(x^3y^{\frac{2}{3}}\right)$
7. $-\log(\sqrt{xz^5})$
8. $\log\left(x^{\frac{11}{12}}\sqrt{y}\right)$
9. $\log\left(x^{\frac{3}{4}}\sqrt{y}\right)$
10. $\log\left(\frac{x^3}{y^2}\right)$

Document No. LCB2601042

1. $\log\left(y^5z^{\frac{8}{3}}\right)$
2. $\log\left(\frac{\sqrt[4]{y}}{z^{\frac{3}{4}}}\right)$
3. $\log(x^4y)$
4. $\log(\sqrt[4]{xz^3})$
5. $\log\left(y^{\frac{14}{3}}\right)$
6. $\log\left(\frac{x^{\frac{2}{3}}}{y^{\frac{3}{3}}}\right)$
7. 0
8. $\log(x^5z^4)$
9. $\log\left(x^{\frac{2}{3}}yz^5\right)$
10. $\log\left(x^2\sqrt{y}\right)$

Document No. LCB2601043

1. $\log\left(y^{\frac{23}{4}}\right)$
2. $\log\left(\frac{x^{\frac{2}{3}}}{y^5z}\right)$
3. $\log\left(\sqrt[4]{xy^{\frac{2}{3}}}\right)$
4. $\log\left(y^{\frac{5}{12}}\right)$
5. $\log(\sqrt{x}\sqrt{z})$
6. $\log\left(\frac{xy}{\sqrt[4]{z}}\right)$
7. $\log\left(\frac{z^{\frac{5}{4}}}{\sqrt[4]{y}}\right)$
8. $\log\left(y^{\frac{3}{4}}\sqrt[3]{z}\right)$
9. $\log(\sqrt{x}\sqrt[4]{z})$
10. $\log\left(\frac{x^2}{y^3}\right)$

Document No. LCB2601044

1. $\log(x^4 y^4 z)$
2. $\log(x^3 z^{\frac{2}{3}})$
3. $\log\left(\frac{x^2}{y^3 z}\right)$
4. $\log\left(\frac{x^{\frac{3}{4}}}{y^2}\right)$
5. $\log\left(\frac{x^{\frac{7}{12}}}{z^{\frac{2}{3}}}\right)$
6. $\log(y^3 z)$
7. $\log(xz^{\frac{2}{3}})$
8. $\log(y)$
9. $\log\left(\frac{x^5}{z^{\frac{3}{4}}}\right)$
10. $\log\left(\frac{\sqrt{x}}{\sqrt{y}}\right)$

Document No. LCB2601045

1. $\log(x^2 y^4)$
2. $-\log(\sqrt[3]{x})$
3. $\log(x^{\frac{2}{3}} y^3)$
4. $\log\left(\frac{\sqrt[4]{y}}{z^2}\right)$
5. $\log(x^{\frac{2}{3}} z^5)$
6. $\log\left(\frac{x^5}{y^3}\right)$
7. $\log\left(\frac{x^{\frac{3}{4}} \sqrt[4]{z}}{y^2}\right)$
8. $\log\left(\frac{x^{\frac{9}{2}}}{z^5}\right)$
9. $\log\left(\frac{x^4}{y^{\frac{3}{4}}}\right)$
10. $\log\left(\frac{x^{\frac{13}{3}}}{\sqrt[3]{y}}\right)$

Document No. LCB2601046

1. $\log\left(\frac{x^4}{y^{\frac{2}{3}}}\right)$
2. $-\log\left(x^{\frac{11}{3}}\right)$
3. $\log\left(\frac{x^{\frac{14}{3}}}{y^2}\right)$
4. $\log\left(\sqrt[4]{y} z^3\right)$
5. $\log\left(\frac{x^{\frac{5}{4}}}{y^{\frac{2}{3}}}\right)$
6. $\log\left(\frac{\sqrt[3]{x}}{z^5}\right)$
7. $-\log\left(x^{\frac{4}{3}} \sqrt{y}\right)$
8. $\log(x^5 y^3)$
9. $\log(\sqrt{xy^2} z^4)$
10. $\log\left(\frac{z^5}{\sqrt[3]{y}}\right)$

Document No. LCB2601047

1. $\log\left(\frac{x^{\frac{13}{4}}}{y^{\frac{3}{4}}}\right)$
2. $\log(\sqrt{x} \sqrt{y} \sqrt[3]{z})$
3. $\log(y^{\frac{3}{2}} z^4)$
4. $\log(\sqrt[4]{xy^5})$
5. $\log\left(\frac{\sqrt[3]{xy^2}}{z^4}\right)$
6. $\log\left(\frac{xz}{\sqrt{y}}\right)$
7. $\log\left(\frac{x^3}{y^5 z^3}\right)$
8. $\log\left(\frac{x^2}{\sqrt[3]{y}}\right)$
9. $\log\left(\frac{y^{\frac{23}{4}}}{z^{\frac{3}{4}}}\right)$
10. $\log\left(\frac{x^2}{y^2 z^{\frac{2}{3}}}\right)$

Document No. LCB2601048

1. $\log\left(\frac{x^4}{y^4 \sqrt[4]{z}}\right)$
2. $\log(y^5 z^{10})$
3. $\log\left(\frac{x^3}{\sqrt[3]{y} \sqrt[3]{z}}\right)$
4. $\log\left(\frac{x^2}{y^5}\right)$
5. $-\log(x)$
6. $\log(x^{\frac{9}{2}} z^3)$
7. $\log(y^4 \sqrt{z})$
8. $\log\left(\frac{x^4}{z^{\frac{15}{4}}}\right)$
9. $\log\left(\frac{x^3}{y^{\frac{3}{4}}}\right)$
10. $\log\left(x^{\frac{5}{2}} \sqrt[4]{y}\right)$

Document No. LCB2601049

1. $\log(\sqrt[3]{x} \sqrt[3]{y})$
2. $\log\left(\frac{y^{\frac{15}{4}}}{z}\right)$
3. $\log(\sqrt[3]{x} \sqrt[4]{y})$
4. $\log\left(x^{\frac{2}{3}} \sqrt[3]{y}\right)$
5. $\log(x^5 z^6)$
6. $\log\left(\frac{\sqrt[3]{x}}{z^{\frac{2}{3}}}\right)$
7. $\log(x^4)$
8. $\log(x \sqrt[3]{y})$
9. $\log\left(\frac{x^2}{\sqrt{y}}\right)$
10. $\log(\sqrt{x} \sqrt[6]{y})$

Document No. LCB2601050

1. $\log\left(\frac{\sqrt{y}}{x^{\frac{5}{3}}}\right)$
2. $\log\left(\sqrt[3]{xy^4}\right)$
3. $\log\left(x^5 z^{\frac{9}{4}}\right)$
4. $\log\left(y^{\frac{17}{4}} z^3\right)$
5. $\log\left(x^4 y^2\right)$
6. $\log\left(y^{\frac{5}{3}}\right)$
7. $\log\left(\frac{x^{\frac{3}{4}}}{y^{\frac{3}{5}}}\right)$
8. $\log\left(\frac{x^{\frac{14}{3}}}{y^{\frac{3}{3}}}\right)$
9. $\log\left(\frac{x^{\frac{3}{4}}}{y^2}\right)$
10. $\log\left(\frac{x^2}{y^4 \sqrt[3]{z}}\right)$

Document No. LCB2601051

1. $\log\left(x^{\frac{17}{3}}\right)$
2. $\log\left(\frac{\sqrt{x}}{y^{\frac{3}{5}}}\right)$
3. $\log\left(y^4 \sqrt[3]{z}\right)$
4. $\log\left(y^{\frac{5}{12}} z^5\right)$
5. 0
6. $\log\left(x^4 \sqrt{y}\right)$
7. $\log\left(\frac{\sqrt{x}}{\sqrt{y}}\right)$
8. $\log\left(\frac{x^{\frac{11}{12}}}{\sqrt{z}}\right)$
9. $\log\left(\frac{x^2}{\sqrt[3]{z}}\right)$
10. $\log\left(x^{\frac{7}{2}}\right)$

Document No. LCB2601052

1. $\log\left(\frac{\sqrt[4]{x} \sqrt[4]{y}}{\sqrt[3]{z}}\right)$
2. $\log\left(\frac{z^{\frac{16}{3}}}{\sqrt[3]{y}}\right)$
3. $\log\left(\frac{x^{\frac{3}{4}}}{\sqrt[4]{y}}\right)$
4. $\log\left(\frac{\sqrt[3]{z}}{\sqrt[4]{y}}\right)$
5. $-\log\left(x^{\frac{13}{3}}\right)$
6. $\log\left(\frac{x^2}{y^5}\right)$
7. $\log\left(x^{\frac{16}{3}}\right)$
8. $\log\left(\sqrt[4]{x} \sqrt[3]{y} z^5\right)$
9. $\log\left(y^{\frac{15}{4}} z^{\frac{2}{3}}\right)$
10. $-\log\left(y^2\right)$

Document No. LCB2601053

1. $\log\left(\sqrt[3]{xy^{\frac{3}{4}} z^{\frac{3}{4}}}\right)$

2. $\log\left(z^4\right)$
3. $\log\left(\frac{x \sqrt[3]{y}}{\sqrt[3]{z}}\right)$
4. $\log\left(y^{\frac{15}{4}}\right)$
5. $\log\left(\frac{x^{\frac{3}{4}}}{y^4}\right)$
6. $\log\left(\sqrt{x} \sqrt[4]{z}\right)$
7. $\log\left(\sqrt[4]{xz^{\frac{19}{4}}}\right)$
8. $\log\left(\frac{\sqrt[3]{x}}{y^3}\right)$
9. $\log\left(\frac{z^3}{x^{\frac{5}{3}}}\right)$
10. $\log\left(x^3 y^3 z^{\frac{2}{3}}\right)$

Document No. LCB2601054

1. $\log\left(x^4 z^{\frac{4}{3}}\right)$
2. $\log\left(y^6\right)$
3. $\log\left(\frac{x^8}{z^2}\right)$
4. $\log\left(x^{\frac{2}{3}} \sqrt[3]{yz^4}\right)$
5. $\log\left(x^{\frac{2}{3}} \sqrt[3]{y}\right)$
6. $\log\left(\sqrt{y} \sqrt[3]{z}\right)$
7. $\log\left(\sqrt{x} \sqrt[12]{z}\right)$
8. $\log\left(\frac{x^{\frac{3}{4}}}{y^3}\right)$
9. $\log\left(x^5 y^4\right)$
10. $\log\left(\frac{\sqrt{x}}{y^2}\right)$

Document No. LCB2601055

1. $\log\left(\frac{x^3 \sqrt{z}}{y}\right)$
2. 0
3. $\log\left(\frac{z^5}{x^4}\right)$
4. $\log\left(\frac{\sqrt[3]{x}}{y^5}\right)$
5. $\log\left(\frac{z^{\frac{5}{3}}}{y^4}\right)$
6. $\log\left(\frac{y^{\frac{7}{4}}}{z^4}\right)$
7. $\log\left(\sqrt[4]{x} \sqrt{y}\right)$
8. $\log\left(x^{\frac{2}{3}} y\right)$
9. $-\log\left(x^{\frac{4}{3}}\right)$
10. $\log\left(y^{\frac{13}{3}} \sqrt[4]{z}\right)$

Document No. LCB2601056

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

4. $\log\left(\frac{x^3 y^3}{z^2}\right)$
5. $\log\left(\frac{x}{y^4}\right)$
6. $\log\left(\frac{\sqrt[4]{z}}{y^{12}}\right)$
7. $\log\left(x^{\frac{17}{4}}\right)$
8. $\log\left(\frac{x^3}{\sqrt[3]{y}}\right)$
9. $\log\left(\frac{x}{\sqrt{y}}\right)$
10. $-\log\left(y^{\frac{9}{2}}\right)$

Document No. LCB2601057

1. $\log(y^4 z^5)$
2. $\log(x^2 \sqrt[3]{y})$
3. $\log\left(\frac{x^4}{\sqrt{y}\sqrt{z}}\right)$
4. $\log\left(x^{\frac{3}{4}}\right)$
5. $\log\left(\frac{\sqrt{x}}{y^3 z^2}\right)$
6. $\log\left(x^{\frac{2}{3}} \sqrt[4]{yz}\right)$
7. $\log\left(\frac{y^5}{z^4}\right)$
8. $\log\left(\frac{\sqrt[3]{x}}{y^{\frac{11}{4}}}\right)$
9. $\log\left(\frac{\sqrt{x}}{\sqrt[4]{y}}\right)$
10. $\log\left(\frac{\sqrt[3]{x}}{y^5}\right)$

Document No. LCB2601058

1. $\log\left(x^{\frac{2}{3}} y^{\frac{3}{4}}\right)$
2. $\log(x^5 z^5)$
3. $\log\left(\frac{\sqrt[3]{xy^4}}{z^2}\right)$
4. $-\log\left(x^{\frac{7}{3}}\right)$
5. $\log\left(\frac{\sqrt[4]{x}}{y^3}\right)$
6. $\log\left(\frac{x^{\frac{4}{3}}}{y^{\frac{2}{3}}}\right)$
7. $\log\left(x^{\frac{2}{3}} y^4\right)$
8. $\log\left(\frac{z^{\frac{2}{3}}}{\sqrt[4]{y}}\right)$
9. $\log\left(\frac{x^{\frac{3}{4}}}{y^5}\right)$
10. $-\log(z)$

Document No. LCB2601059

1. $\log\left(\frac{x^5}{y^3 z^5}\right)$
2. $\log\left(\frac{x^4}{y^{\frac{4}{3}}}\right)$
3. $\log\left(x^4 z^{\frac{3}{4}}\right)$

4. $\log\left(\frac{x}{z^4}\right)$
5. $\log\left(\frac{\sqrt[4]{xy^4}}{\sqrt[3]{z}}\right)$
6. $\log\left(\frac{x^{\frac{3}{4}} z^5}{y^4}\right)$
7. $\log(x^5 y^4)$
8. $\log(\sqrt[4]{x} z^3)$
9. $\log\left(\frac{y^{\frac{4}{3}}}{z^3}\right)$
10. $\log\left(\frac{x^{\frac{3}{4}} y^4}{z^4}\right)$

Document No. LCB2601060

1. $\log\left(\frac{x^{\frac{2}{3}}}{y^4}\right)$
2. $\log\left(x^4 y^{\frac{3}{4}}\right)$
3. $\log\left(\frac{\sqrt[4]{x}}{z^{\frac{17}{4}}}\right)$
4. $\log\left(\frac{x^3}{\sqrt[3]{y}}\right)$
5. $\log(\sqrt[3]{xy^3})$
6. $\log\left(\frac{z^5}{y^{\frac{5}{3}}}\right)$
7. $\log(\sqrt[3]{x}\sqrt{y})$
8. $\log(xy^{\frac{3}{4}})$
9. $\log\left(\frac{x^{\frac{2}{3}}}{z^{\frac{7}{4}}}\right)$
10. $\log\left(y^{\frac{7}{3}} z^3\right)$

Document No. LCB2601061

1. $\log\left(y^{\frac{5}{2}}\right)$
2. $\log\left(y^{\frac{10}{3}}\right)$
3. $\log\left(\frac{x^5 \sqrt{y}}{\sqrt[4]{z}}\right)$
4. $\log\left(\frac{x^2}{y^5}\right)$
5. $\log\left(\frac{x^4}{z^{\frac{2}{7}}}\right)$
6. $\log\left(\frac{x^5}{z^{\frac{10}{3}}}\right)$
7. $\log(\sqrt{xy^{\frac{5}{2}}})$
8. $\log\left(\frac{z}{\sqrt[3]{y}}\right)$
9. $\log\left(\frac{x^5}{y^{\frac{5}{3}}}\right)$
10. $\log(\sqrt{y} z^2)$

Document No. LCB2601062

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

3. $\log\left(\frac{z^3}{\sqrt[12]{x}}\right)$
4. $\log\left(y^{\frac{3}{4}}\right)$
5. $\log\left(\frac{x^2}{\sqrt[4]{y}}\right)$
6. $\log(x^5 z)$
7. $\log\left(\frac{x^{\frac{2}{3}}}{\sqrt[4]{z}}\right)$
8. $\log\left(\frac{\sqrt[3]{x}}{y^3}\right)$
9. $\log\left(\frac{\sqrt{x}}{y^3}\right)$
10. $\log\left(\frac{\sqrt{x}}{y^5}\right)$

Document No. LCB2601063

1. $\log(\sqrt{xy^5})$
2. $\log\left(\frac{\sqrt[3]{x}}{z^{\frac{11}{12}}}\right)$
3. $\log\left(x^{\frac{11}{3}}\right)$
4. 0
5. $-\log\left(x^{\frac{7}{3}}y^{\frac{3}{4}}\right)$
6. $\log(y)$
7. $\log\left(\frac{\sqrt[3]{x}}{z}\right)$
8. $\log\left(\frac{x^{\frac{4}{3}}}{z^3}\right)$
9. $\log\left(\frac{\sqrt[3]{x}}{y^{\frac{10}{3}}}\right)$
10. $\log\left(x^{\frac{2}{3}}y^{\frac{3}{4}}\right)$

Document No. LCB2601064

1. $\log\left(\frac{x^2}{y^5 z^{\frac{2}{3}}}\right)$
2. $\log\left(\frac{z}{y^{\frac{11}{4}}}\right)$
3. $\log\left(\frac{\sqrt{xy}}{z^{\frac{3}{4}}}\right)$
4. $\log\left(\sqrt{xz^{\frac{7}{3}}}\right)$
5. $\log\left(\frac{x^{\frac{17}{4}}}{y^5}\right)$
6. $\log\left(y^{\frac{23}{4}}\right)$
7. $\log\left(\frac{z^4}{y^3}\right)$
8. $\log\left(\sqrt[3]{xy^4}\right)$
9. $\log\left(\frac{z^{\frac{13}{4}}}{\sqrt[3]{y}}\right)$
10. $\log\left(\frac{x^{\frac{3}{4}}}{\sqrt[4]{y}}\right)$

Document No. LCB2601065

1. $\log\left(y^{\frac{3}{4}}z^5\right)$
2. $\log\left(x^5 z^5\right)$
3. $-\log\left(y^{\frac{15}{4}}\sqrt[4]{z}\right)$

4. $\log\left(\frac{x^{\frac{3}{4}}}{y^2}\right)$
5. $\log\left(\frac{x}{y^{\frac{5}{6}}}\right)$
6. $\log\left(\frac{\sqrt[4]{x}}{z^4}\right)$
7. $\log\left(\frac{z^{\frac{3}{8}}}{\sqrt{y}}\right)$
8. $\log\left(\frac{y^{\frac{5}{6}}}{z^4}\right)$
9. $\log\left(\frac{x^3}{y^{\frac{2}{3}}}\right)$
10. $\log\left(\frac{y^3}{\sqrt[4]{z}}\right)$

Document No. LCB2601066

1. $-\log\left(x^{\frac{3}{2}}\sqrt[4]{z}\right)$
2. $\log\left(\frac{x^2}{z^3}\right)$
3. $\log\left(x^4\sqrt[4]{y}\right)$
4. $\log\left(x^{\frac{3}{4}}y^3\right)$
5. $\log(\sqrt{xy})$
6. $\log\left(x^{\frac{3}{4}}y^3\right)$
7. $\log\left(\frac{\sqrt{z}}{y^3}\right)$
8. $\log\left(\frac{\sqrt{x}}{y}\right)$
9. $\log\left(\frac{x^5}{y^4}\right)$
10. $\log\left(x^{\frac{17}{4}}\right)$

Document No. LCB2601067

1. $\log\left(\frac{z^{\frac{19}{4}}}{y^5}\right)$
2. $\log\left(\sqrt[4]{xy^3}\right)$
3. $\log\left(\frac{x^2 y^4}{\sqrt[3]{z}}\right)$
4. $\log\left(x^{\frac{17}{4}}\right)$
5. $\log\left(\frac{\sqrt[4]{z}}{y^4}\right)$
6. $\log\left(y^4 z^4\right)$
7. $\log\left(y^4 z^{\frac{3}{4}}\right)$
8. $\log\left(x^2 y^{\frac{3}{4}}\right)$
9. $\log\left(\sqrt[3]{yz^4}\right)$
10. $\log\left(\frac{\sqrt[4]{x}}{y^5}\right)$

Document No. LCB2601068

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

4. $\log\left(\frac{x^5}{z^{\frac{13}{4}}}\right)$
5. $-\log(\sqrt[4]{x})$
6. $\log\left(\frac{x^3}{y^2 z^4}\right)$
7. $\log\left(\frac{x}{z^{\frac{3}{2}}}\right)$
8. $\log\left(\frac{z^3}{y^2}\right)$
9. $\log\left(y^{\frac{7}{12}} \sqrt[4]{z}\right)$
10. $\log\left(x^{\frac{2}{3}} z^{\frac{2}{3}}\right)$

Document No. LCB2601069

1. $\log\left(\frac{x^{\frac{2}{3}}}{y^4}\right)$
2. $\log\left(\frac{\sqrt{x}}{z^{\frac{13}{3}}}\right)$
3. $\log\left(\frac{x}{\sqrt{y}}\right)$
4. $\log\left(x^{\frac{10}{3}} z^3\right)$
5. $\log(x^3 y^4)$
6. $\log\left(\frac{\sqrt{x}}{y^{\frac{3}{4}}}\right)$
7. $\log\left(\frac{x^3}{\sqrt[4]{y z^4}}\right)$
8. $\log(y z^5)$
9. $\log\left(\frac{\sqrt[4]{x}}{z^3}\right)$
10. $\log\left(\sqrt[3]{y z^{\frac{17}{12}}}\right)$

Document No. LCB2601070

1. $\log\left(\frac{x^5}{\sqrt[3]{y}}\right)$
2. $\log\left(y^{\frac{5}{4}}\right)$
3. $\log\left(\frac{x^{\frac{3}{4}} \sqrt[4]{y}}{\sqrt[4]{z}}\right)$
4. $\log\left(\sqrt{x y^{\frac{3}{4}}}\right)$
5. $\log\left(x^4 \sqrt[3]{y}\right)$
6. $\log\left(\sqrt[3]{x} \sqrt[3]{z}\right)$
7. $\log\left(\frac{\sqrt{x}}{y z^3}\right)$
8. $-\log\left(y^{\frac{3}{2}}\right)$
9. $\log\left(\frac{\sqrt[3]{x}}{\sqrt{z}}\right)$
10. $\log\left(\frac{x^3}{y^2}\right)$

Document No. LCB2601071

1. $\log\left(\frac{\sqrt[4]{x}}{y^3}\right)$
2. $\log\left(\frac{x^8}{\sqrt{y}}\right)$
3. $\log\left(y^5 \sqrt[6]{z}\right)$
4. $\log(x^3 y^4)$

5. $\log(y^4 z^6)$
6. $\log(y^{10})$
7. $\log\left(\frac{x^{\frac{3}{4}}}{y^4}\right)$
8. $\log\left(x^{\frac{3}{4}} \sqrt[3]{y}\right)$
9. $\log(x^4 y^5)$
10. $\log\left(\frac{x^5 \sqrt{z}}{\sqrt[3]{y}}\right)$

Document No. LCB2601072

1. $\log\left(\frac{\sqrt[3]{x}}{\sqrt[4]{y}}\right)$
2. $\log\left(\frac{x^2}{y^{\frac{3}{4}}}\right)$
3. $\log\left(\sqrt[4]{x} \sqrt[4]{y}\right)$
4. $\log\left(x^4 \sqrt{y}\right)$
5. $\log(\sqrt{x y^2})$
6. $\log(x \sqrt{y})$
7. $\log\left(x^{\frac{3}{4}} y\right)$
8. $\log\left(\sqrt[4]{y z^7}\right)$
9. $\log\left(x^3 y \sqrt[3]{z}\right)$
10. $\log\left(\frac{x^{\frac{4}{3}}}{z^{\frac{3}{3}}}\right)$

Document No. LCB2601073

1. $\log\left(x^{\frac{3}{4}} y^5\right)$
2. $\log\left(x^2 \sqrt{y}\right)$
3. $\log\left(\frac{x^5}{y^{\frac{7}{2}}}\right)$
4. $-\log(\sqrt{x})$
5. $\log\left(x^{\frac{2}{3}} \sqrt{y} \sqrt[4]{z}\right)$
6. $-\log\left(\sqrt[4]{x y^4}\right)$
7. $\log(x^3 y^3)$
8. $\log\left(\frac{x^4}{\sqrt{y}}\right)$
9. $\log\left(x^{\frac{3}{4}} \sqrt{z}\right)$
10. $\log(x z^9)$

Document No. LCB2601074

1. $\log\left(\frac{x^{\frac{3}{4}}}{z^{\frac{4}{4}}}\right)$
2. $\log\left(\sqrt[3]{x y^5}\right)$
3. $\log\left(\frac{x}{\sqrt[3]{z}}\right)$
4. $\log\left(\sqrt[4]{x z^{\frac{17}{4}}}\right)$
5. $\log\left(\sqrt[4]{x y^{\frac{2}{3}} \sqrt{z}}\right)$
6. $\log(y^2 z^5)$
7. $\log\left(\frac{x^{\frac{2}{3}}}{y^2 \sqrt[4]{z}}\right)$

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

Document No. LCB2601075

1. $\log(y^7z)$
2. $\log(\sqrt{xy^3})$
3. $\log\left(y^{\frac{15}{4}}\right)$
4. $\log\left(\frac{x^3z^3}{y^2}\right)$
5. $\log\left(\frac{x^3z^4}{y^5}\right)$
6. $\log\left(x^{\frac{2}{3}}y^4\right)$
7. $\log\left(\frac{\sqrt{y}}{z^{\frac{3}{4}}}\right)$
8. $\log\left(\frac{x^4}{\sqrt[6]{y}}\right)$
9. $\log(y^3\sqrt[3]{z})$
10. $\log\left(x^{\frac{2}{3}}y^2\sqrt[4]{z}\right)$

Document No. LCB2601076

1. $\log\left(\frac{y^5}{z^{\frac{3}{4}}}\right)$
2. $\log(x^2\sqrt[4]{y})$
3. $\log\left(\frac{\sqrt[3]{x}}{yz^2}\right)$
4. $\log\left(x^{\frac{3}{4}}z^4\right)$
5. $\log\left(x^{\frac{3}{4}}y^4\right)$
6. $\log\left(\frac{x^4y^2}{\sqrt{z}}\right)$
7. $\log\left(\frac{z^{\frac{19}{4}}}{y^4}\right)$
8. $\log\left(\frac{\sqrt[3]{xy^{\frac{3}{4}}}}{z^4}\right)$
9. $\log\left(\frac{x^3z^{\frac{2}{3}}}{y^2}\right)$
10. $\log\left(\sqrt[3]{xy^{\frac{2}{3}}z^4}\right)$

Document No. LCB2601077

1. $\log\left(\frac{\sqrt{x}}{y^{\frac{3}{3}}}\right)$
2. $\log\left(x^{\frac{3}{4}}y^9\right)$
3. $\log\left(\frac{y^2}{z^{\frac{5}{2}}}\right)$
4. $\log\left(\frac{x^{\frac{11}{3}}}{\sqrt[3]{z}}\right)$
5. $\log\left(\frac{z}{x^{\frac{4}{4}}}\right)$
6. $\log\left(x^4z^{\frac{9}{2}}\right)$
7. $\log\left(x^{\frac{13}{3}}\sqrt{y}\right)$

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

Document No. LCB2601078

1. $\log\left(x^2z^{\frac{2}{3}}\right)$
2. $\log\left(\frac{y^4}{z^{\frac{9}{2}}}\right)$
3. $\log\left(\frac{\sqrt[3]{xy^4}}{z^3}\right)$
4. $\log\left(x^{\frac{13}{12}}y^2\right)$
5. $\log\left(\frac{x^{\frac{3}{4}}}{y^{\frac{3}{4}}}\right)$
6. $-\log\left(y^{\frac{17}{4}}\right)$
7. $\log\left(\frac{\sqrt[3]{x}}{\sqrt[3]{y}}\right)$
8. $\log\left(x^{\frac{9}{4}}\right)$
9. $\log\left(\sqrt[4]{x^3y}\right)$
10. $\log(x^5y^4)$

Document No. LCB2601079

1. $-\log\left(\sqrt[3]{y}\right)$
2. $\log\left(\frac{\sqrt[4]{x}}{y^4\sqrt{z}}\right)$
3. $\log\left(\sqrt[4]{x}\sqrt[3]{z}\right)$
4. $-\log(y^2)$
5. $\log\left(\frac{x^4}{z^3}\right)$
6. $\log\left(\frac{x^{\frac{3}{4}}}{\sqrt[3]{y}}\right)$
7. $\log\left(\frac{x^5}{z}\right)$
8. $\log\left(\frac{x^2}{z^3}\right)$
9. $\log(y^9)$
10. $-\log(\sqrt{xz})$

Document No. LCB2601080

1. $\log\left(\frac{x^4}{y^3z^3}\right)$
2. $\log\left(\sqrt[12]{x}\right)$
3. $\log(xy^4z^2)$
4. $\log\left(\frac{\sqrt[4]{x}}{y^{\frac{13}{4}}}\right)$
5. $\log\left(\frac{z^4}{y^{\frac{3}{4}}}\right)$
6. $\log\left(\frac{x^5}{y^2z^3}\right)$
7. $\log(x^6)$
8. $\log\left(\frac{\sqrt[4]{x}}{y^{\frac{12}{5}}}\right)$

$$9. \log(x^{\frac{3}{4}}y^4z^5)$$

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

Document No. LCB2601081

$$1. \log(x^{\frac{13}{4}})$$

$$2. \log(\sqrt{x})$$

$$3. \log\left(\frac{\sqrt[4]{xy^5}}{z^{\frac{3}{4}}}\right)$$

$$4. \log(x^2)$$

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

$$6. \log(x^6y^{\frac{2}{3}})$$

$$7. -\log(x^{\frac{7}{3}}z^4)$$

$$8. \log(x^{\frac{14}{3}}z^{\frac{3}{4}})$$

$$9. -\log(\sqrt{x}z^{\frac{3}{4}})$$

$$10. \log(x^3y^{\frac{3}{4}})$$

Document No. LCB2601082

$$1. \log(xy^{\frac{2}{3}}\sqrt{z})$$

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

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

$$4. \log\left(\frac{x^{\frac{15}{4}}}{z^{\frac{2}{3}}}\right)$$

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

$$6. \log\left(\frac{\sqrt{x}}{y}\right)$$

$$7. \log(\sqrt[3]{x}\sqrt{y})$$

$$8. \log\left(\frac{x^{\frac{11}{2}}}{z^{\frac{2}{3}}}\right)$$

$$9. \log\left(\frac{x^{\frac{2}{3}}y^3}{z^2}\right)$$

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

Document No. LCB2601083

$$1. \log(x)$$

$$2. \log(x^2y^2z^5)$$

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

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

$$5. \log(xy^2)$$

$$6. \log(y^{\frac{10}{3}})$$

$$7. \log(x^4z)$$

$$8. \log(y^{\frac{11}{3}})$$

$$9. \log(x^{\frac{16}{3}}y)$$

$$10. \log\left(\frac{z^2}{x^4}\right)$$

Document No. LCB2601084

$$1. \log\left(\frac{\sqrt[3]{x}}{z^2}\right)$$

$$2. \log\left(\frac{x^3}{z^{\frac{11}{3}}}\right)$$

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

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

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

$$6. \log(x^2y^{\frac{2}{3}})$$

$$7. \log(x^{\frac{3}{4}}z^{\frac{11}{2}})$$

$$8. \log(y^{\frac{5}{6}})$$

$$9. \log\left(\frac{x}{y^4}\right)$$

$$10. \log(y^{\frac{3}{4}}z)$$

Document No. LCB2601085

$$1. \log(x^2y^4)$$

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

$$3. \log(y^5z^{\frac{2}{3}})$$

$$4. \log(y^3z^{\frac{2}{3}})$$

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

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

$$7. \log\left(\frac{x^2z^{\frac{2}{3}}}{y^2}\right)$$

$$8. -\log(\sqrt[4]{y}z^3)$$

$$9. \log\left(\frac{x}{y^4}\right)$$

$$10. \log(x^{\frac{15}{4}}\sqrt[3]{z})$$

Document No. LCB2601086

$$1. \log(x^4y^{\frac{2}{3}}z^{\frac{2}{3}})$$

$$2. \log(\sqrt{x}z^4)$$

$$3. \log\left(\frac{z^{\frac{5}{6}}}{y^3}\right)$$

$$4. \log\left(\frac{z^3}{y^2}\right)$$

$$5. \log\left(\frac{x^3}{z^4}\right)$$

$$6. \log(x^5y^2)$$

$$7. \log(\sqrt{xy})$$

$$8. \log(\sqrt[3]{y}z^4)$$

$$9. \log(xy^2)$$

$$10. \log\left(\frac{z^4}{y^{\frac{2}{3}}}\right)$$

Document No. LCB2601087

1. $\log\left(\frac{x^{\frac{2}{3}}}{\sqrt{yz^{\frac{3}{4}}}}\right)$
2. $\log\left(\frac{x^2\sqrt[3]{z}}{y}\right)$
3. $\log\left(\frac{x^{\frac{3}{2}}}{\sqrt[3]{y}}\right)$
4. $\log(x^3y^4)$
5. $\log\left(\frac{\sqrt{x}}{y^3z}\right)$
6. $\log\left(\frac{x^{\frac{5}{4}}}{\sqrt[4]{z}}\right)$
7. $\log(\sqrt{xy})$
8. $\log\left(y^{\frac{3}{4}}\sqrt[6]{z}\right)$
9. $\log\left(y^{\frac{17}{12}}\right)$
10. $\log(y^4)$

Document No. LCB2601088

1. $\log\left(\frac{\sqrt{x}}{y^5}\right)$
2. $\log\left(y^4z^{\frac{2}{3}}\right)$
3. $\log\left(x^{\frac{5}{2}}\right)$
4. $\log\left(\frac{x^{\frac{3}{4}}}{y^{\frac{3}{4}}}\right)$
5. $\log\left(\frac{x}{y^{\frac{3}{4}}}\right)$
6. $-\log\left(\sqrt[12]{x^4y}\right)$
7. $\log\left(\frac{\sqrt[4]{x}}{y^4z^2}\right)$
8. $\log\left(\frac{x^4}{z^5}\right)$
9. $\log\left(\frac{y^{\frac{3}{2}}}{z}\right)$
10. $\log(\sqrt{xy^5}\sqrt[3]{z})$

Document No. LCB2601089

1. $\log\left(\frac{\sqrt[3]{xy^5}}{z^{\frac{3}{4}}}\right)$
2. $\log\left(y^{\frac{5}{4}}z^{\frac{2}{3}}\right)$
3. $\log\left(\frac{x^3}{\sqrt{y}}\right)$
4. $\log\left(x^4z^{\frac{16}{3}}\right)$
5. $\log\left(\frac{\sqrt{z}}{y^4}\right)$
6. $\log\left(\frac{x^5\sqrt{y}}{z^5}\right)$
7. $\log\left(\sqrt[3]{yz^{\frac{3}{4}}}\right)$
8. $\log(y^2z^9)$
9. $\log(xy^4)$
10. $\log\left(x^{\frac{2}{3}}\sqrt[6]{z}\right)$

Document No. LCB2601090

1. $\log\left(\frac{z^5}{y^2}\right)$
2. $-\log\left(y^{\frac{15}{4}}\right)$
3. $\log\left(\frac{\sqrt[3]{x}}{z^{\frac{3}{4}}}\right)$
4. $\log\left(x^{\frac{5}{2}}\sqrt{y}\right)$
5. $\log(\sqrt{x}\sqrt{y})$
6. $\log(x^2z^5)$
7. $\log\left(x^4\sqrt[4]{y}\right)$
8. $\log\left(\frac{x^4}{y^{\frac{3}{2}}}\right)$
9. $\log\left(x^{\frac{14}{3}}y^5\right)$
10. $\log\left(y^{\frac{13}{3}}z^{\frac{3}{4}}\right)$

Document No. LCB2601091

1. $\log\left(\frac{\sqrt[4]{x}}{\sqrt{z}}\right)$
2. $\log\left(\frac{\sqrt[3]{y}}{x^{\frac{10}{3}}}\right)$
3. $\log\left(x^{\frac{15}{4}}\right)$
4. $\log\left(x^5\sqrt[4]{y}\right)$
5. $\log\left(x^5y^{\frac{3}{4}}\right)$
6. $\log\left(\frac{\sqrt[3]{x}}{y^3}\right)$
7. $\log\left(x^{\frac{3}{4}}\sqrt[3]{y}\right)$
8. $\log\left(y^{\frac{3}{4}}z^2\right)$
9. $\log\left(\frac{x^2z^4}{y^2}\right)$
10. $\log\left(\frac{x^{\frac{3}{4}}}{\sqrt[3]{y}}\right)$

Document No. LCB2601092

1. $\log\left(\frac{x^{\frac{2}{3}}}{y^{\frac{3}{2}}}\right)$
2. $\log\left(y^5z^{\frac{5}{4}}\right)$
3. $\log(\sqrt[3]{x})$
4. $\log\left(\frac{x^{\frac{7}{4}}}{z^{\frac{2}{3}}}\right)$
5. $\log\left(y^{\frac{17}{12}}\right)$
6. $\log\left(\frac{\sqrt[3]{xy^4}}{z^{\frac{3}{4}}}\right)$
7. $\log\left(\frac{x^{\frac{13}{4}}}{\sqrt[4]{y}}\right)$
8. $\log\left(x^{\frac{5}{3}}z^4\right)$
9. $\log\left(\frac{x^4}{z^{\frac{3}{4}}}\right)$
10. $\log\left(y^{\frac{3}{4}}z^{\frac{17}{4}}\right)$

Document No. LCB2601093

1. $\log\left(\frac{x^4}{y^5}\right)$
2. $\log\left(x^2 y^{\frac{11}{3}}\right)$
3. $\log\left(\frac{x^3}{z^{\frac{11}{4}}}\right)$
4. $\log\left(y^4 z^{\frac{2}{3}}\right)$
5. $\log\left(\frac{xz^{\frac{2}{3}}}{\sqrt[3]{y}}\right)$
6. $\log\left(x^4 y^{\frac{3}{4}} \sqrt[4]{z}\right)$
7. $\log\left(\frac{\sqrt{x}}{y^{\frac{3}{4}}}\right)$
8. $\log\left(x\sqrt{y}\right)$
9. $\log\left(\frac{x^5}{y^3}\right)$
10. $\log\left(\frac{z^2}{y}\right)$

Document No. LCB2601094

1. $\log\left(x^3 y^{\frac{10}{3}}\right)$
2. $\log\left(\frac{x^3}{y}\right)$
3. $\log\left(\frac{z^{\frac{2}{3}}}{x^2}\right)$
4. $\log\left(\frac{x^5}{y^3}\right)$
5. $\log\left(x^{\frac{3}{4}}\right)$
6. $-\log\left(x^{\frac{5}{12}} z^{\frac{2}{3}}\right)$
7. $-\log(x)$
8. $\log\left(x^{\frac{8}{3}}\right)$
9. $\log\left(\sqrt[4]{x} \sqrt[4]{y} \sqrt{z}\right)$
10. $\log(\sqrt{xy^4})$

Document No. LCB2601095

1. $\log(y^2)$
2. $\log\left(\frac{x^{\frac{2}{3}}}{y^2 z^{\frac{2}{3}}}\right)$
3. $\log\left(y^4 \sqrt{z}\right)$
4. $\log\left(x^2 y^{\frac{3}{4}}\right)$
5. $\log\left(\frac{\sqrt{z}}{x^{\frac{2}{5}}}\right)$
6. $\log\left(\frac{x^3 \sqrt[3]{y}}{z^2}\right)$
7. $\log\left(x^4 z^{\frac{3}{4}}\right)$
8. $\log\left(x^{\frac{3}{4}} y^{\frac{2}{3}}\right)$
9. $\log\left(\frac{\sqrt[4]{xy^4}}{\sqrt[3]{z}}\right)$
10. $\log\left(y^{\frac{13}{3}}\right)$

Document No. LCB2601096

1. $\log\left(x^{\frac{2}{3}} z^{\frac{11}{4}}\right)$
2. $\log\left(\frac{x^2}{\sqrt{z}}\right)$
3. $\log\left(\frac{z^5}{\sqrt[4]{y}}\right)$
4. $\log\left(\frac{\sqrt[4]{x}}{y^4 z^2}\right)$
5. $\log\left(\sqrt[3]{xy^{\frac{2}{3}}}\right)$
6. $\log\left(\frac{x^{\frac{14}{3}}}{z^{\frac{3}{4}}}\right)$
7. $\log\left(x^{\frac{11}{4}}\right)$
8. $\log\left(x^{\frac{11}{12}}\right)$
9. $\log\left(x^2 y^{\frac{3}{4}}\right)$
10. $\log\left(\frac{\sqrt[4]{x}}{y^{\frac{2}{3}}}\right)$

Document No. LCB2601097

1. $\log\left(\frac{\sqrt[3]{z}}{y^3}\right)$
2. $\log(x\sqrt{z})$
3. $\log\left(x^4 \sqrt[4]{y}\right)$
4. $\log\left(\frac{x^4}{\sqrt{z}}\right)$
5. $-\log\left(x^{\frac{17}{4}} \sqrt[4]{z}\right)$
6. $\log\left(x^{\frac{5}{4}}\right)$
7. $\log\left(x\sqrt[3]{y}\right)$
8. $\log\left(\frac{x^3}{z^5}\right)$
9. $\log\left(\frac{\sqrt[3]{xz^4}}{y^4}\right)$
10. $\log\left(\frac{y^6}{z^{\frac{3}{4}}}\right)$

Document No. LCB2601098

1. $\log\left(\frac{x^3}{\sqrt[4]{y}}\right)$
2. $\log(y^3)$
3. $\log\left(y^{\frac{7}{2}}\right)$
4. $\log\left(y^{\frac{2}{3}} z^8\right)$
5. $\log\left(y^2 z^{\frac{8}{3}}\right)$
6. $\log\left(\sqrt[4]{xy^3}\right)$
7. $\log\left(\frac{y^9}{z^{\frac{2}{3}}}\right)$
8. $\log\left(\frac{x^{\frac{4}{3}}}{z^{\frac{5}{4}}}\right)$
9. $\log\left(\sqrt{x} \sqrt[3]{y} \sqrt[4]{z}\right)$
10. $\log\left(\frac{x^{\frac{3}{4}}}{y^2}\right)$

Document No. LCB2601099

1. $\log\left(\frac{\sqrt{x}}{y}\right)$
2. $\log\left(\frac{\sqrt[4]{x}}{y^{\frac{2}{3}}}\right)$
3. $\log\left(\frac{xy}{\sqrt{z}}\right)$
4. $\log\left(\frac{z^3}{\sqrt[3]{y}}\right)$
5. $-\log\left(y\sqrt[3]{z}\right)$
6. $\log\left(\frac{\sqrt[3]{x}}{y^4}\right)$
7. $-\log\left(y^{\frac{7}{4}}\right)$
8. $\log\left(\frac{x^2}{z^5}\right)$
9. $\log\left(\sqrt[3]{yz^4}\right)$
10. $\log\left(\sqrt[3]{yz^{\frac{19}{4}}}\right)$

Document No. LCB2601100

1. $\log\left(\frac{x^{\frac{2}{3}}}{y^2z^{\frac{2}{3}}}\right)$
2. $\log\left(\frac{\sqrt[3]{y}}{z^{\frac{10}{3}}}\right)$
3. $\log\left(\sqrt[3]{xy^5}\right)$
4. $\log\left(x^{\frac{3}{4}}y^{\frac{17}{4}}\right)$
5. $\log\left(y^{\frac{3}{4}}z^5\right)$
6. $\log\left(\frac{x^{\frac{17}{2}}}{z^{\frac{2}{3}}}\right)$
7. $\log\left(x^{\frac{17}{3}}\right)$
8. $-\log\left(\sqrt[4]{x}\right)$
9. $\log\left(x^4\sqrt[4]{yz^5}\right)$
10. $\log\left(\frac{\sqrt[3]{x}}{z^{\frac{17}{4}}}\right)$