Properties of Logarithms · 1

Fill in the blank: $\log_5\left(\frac{y}{125}\right) = \log_5(y) - ___$

Properties of Logarithms · 2

Evaluate: $\log_4(2) + \log_4(8)$

Properties of Logarithms · 3

Evaluate: $\log_5(175) - \log_5(7)$

Properties of Logarithms · 4

Fill in the blank: $\log_5(x^8) = ___ \cdot \log_5(x)$

Properties of Logarithms · 5

Evaluate: 3log_2(4)

Properties of Logarithms · 6

Evaluate: log(2) + log(50)

Properties of Logarithms · 7

Evaluate: $\log_3(21) - \log_3(7)$

Properties of Logarithms · 8

Fill in the blank: $\log_3(m^9) = ___ \cdot \log_3(m)$

Properties of Logarithms · 2

ANSWER

2

Properties of Logarithms · 1

ANSWER

3

Properties of Logarithms · 4

ANSWER

8

Properties of Logarithms · 3

ANSWER

2

Properties of Logarithms · 6

ANSWER

2

Properties of Logarithms · 5

ANSWER

6

Properties of Logarithms · 8

ANSWER

9

Properties of Logarithms · 7

ANSWER

1

Fill in the blank: $\log_5(m^9) = ___ \cdot \log_5(m)$

Evaluate: $\log_{12}(8) + \log_{12}(18)$

Evaluate: $\log_3(189) - \log_3(7)$

Fill in the blank: $\log_5(125x) = ___ + \log_5(x)$

Evaluate: 3log_3(3)

Evaluate: log(4) + log(250)

Evaluate: $\log_2(22) - \log_2(11)$

Fill in the blank: $\log_2\left(\frac{x}{16}\right) = \log_2(x) - ___$

Properties of Logarithms · 10

ANSWER

2

Properties of Logarithms · 9

ANSWER

9

Properties of Logarithms · 12

ANSWER

3

Properties of Logarithms · 11

ANSWER

3

Properties of Logarithms · 14

ANSWER

3

Properties of Logarithms · 13

ANSWER

3

Properties of Logarithms · 16

ANSWER

4

Properties of Logarithms · 15

ANSWER

1

Properties of Logarithms · 17

Fill in the blank: $\log_3(y^3) = ___ \cdot \log_3(y)$

Properties of Logarithms · 18

Evaluate: $\log_{12}(2) + \log_{12}(6)$

Properties of Logarithms · 19

Write as a single logarithm: $\log_2(x) + \log_2(11)$. (Write the number first, like $\log_2(3x)$.)

Properties of Logarithms · 20

Evaluate: $\log_2(14) - \log_2(7)$

Properties of Logarithms · 21

Use log(2) ≈ 0.301 and log(3) ≈ 0.477 to find log(9) without a calculator.

Properties of Logarithms · 22

Evaluate: 4log_3(9)

Properties of Logarithms · 23

Write as a single logarithm: 2log_7(x) + $\log_7(3)$. (Write the number first, like $\log_2(3x^2)$.)

Properties of Logarithms · 24

Evaluate: $\log_4(8) + \log_4(8)$

Properties of Logarithms · 18

ANSWER

1

Properties of Logarithms · 17

ANSWER

3

Properties of Logarithms · 20

ANSWER

1

Properties of Logarithms · 19

ANSWER

$\log_2(11x)$

Properties of Logarithms · 22

ANSWER

8

Properties of Logarithms · 21

ANSWER

0.954

Properties of Logarithms · 24

ANSWER

3

Properties of Logarithms · 23

ANSWER

$\log_7(3x^2)$