Properties of Logarithms · 1

Fill in the blank: $\log_2(32x) = ___ + \log_2(x)$

Properties of Logarithms · 2

Evaluate: $\log_6(4) + \log_6(9)$

Properties of Logarithms · 3

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

Properties of Logarithms · 4

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

Properties of Logarithms · 5

Use log(2) ≈ 0.301 and log(3) ≈ 0.477 to find log(12) without a calculator.

Properties of Logarithms · 6

Evaluate: 2log_2(4)

Properties of Logarithms · 7

Write as a single logarithm: 2log_2(y) - $\log_2(7)$

Properties of Logarithms · 8

Evaluate: $\log_4(2) + \log_4(32)$

Properties of Logarithms · 2

ANSWER

2

Properties of Logarithms · 1

ANSWER

5

Properties of Logarithms · 4

ANSWER

1

Properties of Logarithms · 3

ANSWER

$\log_7(3y)$

Properties of Logarithms · 6

ANSWER

4

Properties of Logarithms · 5

ANSWER

1.079

Properties of Logarithms · 8

ANSWER

3

Properties of Logarithms · 7

ANSWER

$\log_2(y^2/7)$

Properties of Logarithms · 9

Write as a single logarithm: 2log_3(y) - $\log_3(7)$

Properties of Logarithms · 10

Use log(2) ≈ 0.301 and log(3) ≈ 0.477 to find log(18) without a calculator.

Properties of Logarithms · 11

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

Properties of Logarithms · 12

Write as a single logarithm: $\log_3(x)$ + $\log_3(11)$. (Write the number first, like $\log_2(3x)$.)

Properties of Logarithms · 13

Evaluate: log(2) + log(5)

Properties of Logarithms · 14

Fill in the blank: $\log_5(25m) = ___ + \log_5(m)$

Properties of Logarithms · 15

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

Properties of Logarithms · 16

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

Properties of Logarithms · 10

ANSWER

1.255

Properties of Logarithms · 9

ANSWER

$\log_3(y^2/7)$

Properties of Logarithms · 12

ANSWER

$\log_3(11x)$

Properties of Logarithms · 11

ANSWER

1

Properties of Logarithms · 14

ANSWER

2

Properties of Logarithms · 13

ANSWER

1

Properties of Logarithms · 16

ANSWER

$\log_2(3x)$

Properties of Logarithms · 15

ANSWER

$\log_2(3y)$

Properties of Logarithms · 17

Use log(2) ≈ 0.301 and log(3) ≈ 0.477 to find log(20) without a calculator.

Properties of Logarithms · 18

Evaluate: $\log_3(90) - \log_3(10)$

Properties of Logarithms · 19

Write as a single logarithm: $\log_5(x) + \log_5(3)$. (Write the number first, like $\log_2(3x)$.)

Properties of Logarithms · 20

Use log(2) ≈ 0.301 and log(3) ≈ 0.477 to find log(16) without a calculator.

Properties of Logarithms · 21

Fill in the blank: $\log_2(y^2) = ___ \cdot \log_2(y)$

Properties of Logarithms · 22

Write as a single logarithm: 5log_2(x) - $\log_2(3)$

Properties of Logarithms · 23

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

Properties of Logarithms · 24

Evaluate: $\log_{12}(9) + \log_{12}(16)$

Properties of Logarithms · 18

ANSWER

2

Properties of Logarithms · 17

ANSWER

1.301

Properties of Logarithms · 20

ANSWER

1.204

Properties of Logarithms · 19

ANSWER

$\log_5(3x)$

Properties of Logarithms · 22

ANSWER

$\log_2(x^5/3)$

Properties of Logarithms · 21

ANSWER

2

Properties of Logarithms · 24

ANSWER

2

Properties of Logarithms · 23

ANSWER

9