Properties of Logarithms · 1

Write as a single logarithm: 2log_3(x) + $\log_3(11)$. (Write the number first, like $\log_2(3x^2)$.)

Properties of Logarithms · 2

Use log(2) ≈ 0.301 and log(3) ≈ 0.477 to find log(27) without a calculator.

Properties of Logarithms · 3

Evaluate: $\log_5(35) - \log_5(7)$

Properties of Logarithms · 4

Write as a single logarithm: 3log_3(y) + $\log_3(7)$. (Write the number first, like $\log_2(3x^2)$.)

Properties of Logarithms · 5

Evaluate: $\log_{12}(3) + \log_{12}(4)$

Properties of Logarithms · 6

Use log(2) ≈ 0.301 and log(3) ≈ 0.477 to find log(8) without a calculator.

Properties of Logarithms · 7

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

Properties of Logarithms · 8

Write as a single logarithm: $\log_2(x) + \log_2(5)$. (Write the number first, like $\log_2(3x)$.)

Properties of Logarithms · 2

ANSWER

1.431

Properties of Logarithms · 1

ANSWER

$\log_3(11x^2)$

Properties of Logarithms · 4

ANSWER

$\log_3(7y^3)$

Properties of Logarithms · 3

ANSWER

1

Properties of Logarithms · 6

ANSWER

0.903

Properties of Logarithms · 5

ANSWER

1

Properties of Logarithms · 8

ANSWER

$\log_2(5x)$

Properties of Logarithms · 7

ANSWER

2

Properties of Logarithms · 9

Write as a single logarithm: 4log_5(x) - $\log_5(11)$

Properties of Logarithms · 10

Use log(2) ≈ 0.301 and log(3) ≈ 0.477 to find log(5) without a calculator.

Properties of Logarithms · 11

Evaluate: $\log_3(39) - \log_3(13)$

Properties of Logarithms · 12

Write as a single logarithm: 4log_2(y) + $\log_2(3)$. (Write the number first, like $\log_2(3x^2)$.)

Properties of Logarithms · 13

Evaluate: log(5) + log(20)

Properties of Logarithms · 14

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

Properties of Logarithms · 15

Write as a single logarithm: $\log_2(y)$ + $\log_2(7)$. (Write the number first, like $\log_2(3x)$.)

Properties of Logarithms · 16

Write as a single logarithm: 2log_5(y) - $\log_5(11)$

Properties of Logarithms · 10

ANSWER

0.699

Properties of Logarithms · 9

ANSWER

$\log_5(x^4/11)$

Properties of Logarithms · 12

ANSWER

$\log_2(3y^4)$

Properties of Logarithms · 11

ANSWER

1

Properties of Logarithms · 14

ANSWER

1.079

Properties of Logarithms · 13

ANSWER

2

Properties of Logarithms · 16

ANSWER

$\log_5(y^2/11)$

Properties of Logarithms · 15

ANSWER

$\log_2(7y)$

Properties of Logarithms · 17

Use log(2) ≈ 0.301 and log(3) ≈ 0.477 to find log(15) without a calculator.

Properties of Logarithms · 18

Evaluate: $\log_2(24) - \log_2(3)$

Properties of Logarithms · 19

Write as a single logarithm: 3log_7(x) - $\log_7(3)$

Properties of Logarithms · 20

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

Properties of Logarithms · 21

Fill in the blank: $\log_2(y^4) = ___ \cdot \log_2(y)$

Properties of Logarithms · 22

Write as a single logarithm: 2log_3(y) - $\log_3(11)$

Properties of Logarithms · 23

Write as a single logarithm: $\log_3(x) + \log_3(5)$. (Write the number first, like $\log_2(3x)$.)

Properties of Logarithms · 24

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

Properties of Logarithms · 18

ANSWER

3

Properties of Logarithms · 17

ANSWER

1.176

Properties of Logarithms · 20

ANSWER

3

Properties of Logarithms · 19

ANSWER

$\log_7(x^3/3)$

Properties of Logarithms · 22

ANSWER

$\log_3(y^2/11)$

Properties of Logarithms · 21

ANSWER

4

Properties of Logarithms · 24

ANSWER

1

Properties of Logarithms · 23

ANSWER

$\log_3(5x)$