Name:

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Logarithm - Solve

L1MS2

Solve for x.

Example 1:

$$\log_{81} 9 = x$$

$$81^{x} = 9$$

$$9^{2x} = 9$$

$$x = \frac{1}{2}$$

Example 2:

$$\log_{x} 2^{-2} = -1$$

$$x^{-1} = 2^{-2}$$

$$x = 4$$

Solve for x.

1)
$$\log_2 x^{\frac{1}{5}} = 2$$

2)
$$\log_x 5 = \frac{1}{2}$$

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3) $\log_{128} \left(\frac{1}{4} \right) = x$

5) $\log_{\frac{1}{8}} \left(\frac{1}{4} \right) = x$

7) $\log_{x} 6 = \frac{1}{3}$

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$$X =$$

9)
$$\log_5 x = 3$$

$$X =$$

10)
$$\log_{27} 3^{-2} = x$$