Name:

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Logarithm - Solve

L1ES3

Solve for x.

Example 1:

$$\log_2 x = 3$$
$$2^3 = x$$
$$x = 8$$

Example 2:

$$\log_2\left(\frac{1}{8}\right) = x$$

$$2^x = \frac{1}{8}$$

$$2^x = 2^{-3}$$

Solve for x.

1)
$$\log_3 27 = x$$

$$(2) \log_4 x = 2$$

x = (

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3) $\log_9\left(\frac{1}{81}\right) = x$

5) $\log_{x} 100 = 2$

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x = (_____

7) $\log_{16} x = \frac{1}{2}$

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X =

9) $\log_7 x = 2$

10) $\log_x 64 = 2$

x = (