Name:

Score:

Logarithm - Solve

L1MS5

Solve for x.

Example 1:

$$\log_{x} 5^{-4} = -2$$
$$x^{-2} = 5^{-4}$$

Example 2:

$$\log_4 x^{\frac{1}{2}} = 2$$

$$4^2 = x^{\frac{1}{2}}$$

$$4^4 = x$$

Solve for x.

1)
$$\log_{64} 8 = x$$

$$(2) \log_{\frac{1}{2}} \left(\frac{1}{2} \right) = x$$

x = (

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 $3) \log_2 x = 9$

5) $\log_x 4^{-3} = -6$

7) $\log_8\left(\frac{1}{4}\right) = x$

9) $\log_{25} \left(\frac{1}{5} \right) = x$

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10)
$$\log_{x} 49^{\frac{1}{2}} = 1$$