Name:

Score : \_\_\_\_\_

## **Logarithm - Solve**

L1MS4

Solve for x.

Example 1:

$$\log_{32} 2 = x$$
$$32^{x} = 2$$
$$2^{5x} = 2$$

 $x = \frac{1}{5}$ 

Example 2:

$$\log_{x} 3^{-4} = -2$$

$$x^{-2} = 3^{-4}$$

$$x = 9$$

Solve for x.

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

(2) 
$$\log_{16} 256 = x$$

x = (

**PREVIEW** 

3)  $\log_{64}\left(\frac{1}{2}\right) = x$ 

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5)  $\log_{81} 3 = x$ 

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7)  $\log_6 x = 3$ 

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9) 
$$\log_x 3^{-6} = -2$$

10) 
$$\log_3 x^{\frac{4}{5}} = 4$$