

Logarithmic Equations

Solve for x.

1) $\log_{x-8}(6) = \frac{1}{3}$

2) $\log_{125} 25 = x+6$

3) _____

5) _____

7) _____

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9) $\log_{\frac{1}{3}}\left(\frac{1}{27}\right) = 6x$

10) $\log_2\left(\frac{1}{64}\right) = \frac{x}{6}$