

Logarithm Functions 2 – in book: Section 9.3 p. 575

Convert to an exponential equation.

1) $\log_6 \left(\frac{1}{36} \right) = -2$

2) $\log_7 49 = t$

3) $\log_5 125 = 3$

Convert to a logarithmic equation.

4) $y^z = 4$

5) $1024^{1/5} = 4$

6) $5^{-3} = \frac{1}{125}$

Find the exact solution to the equation.

7) $\log_3 x = 5$

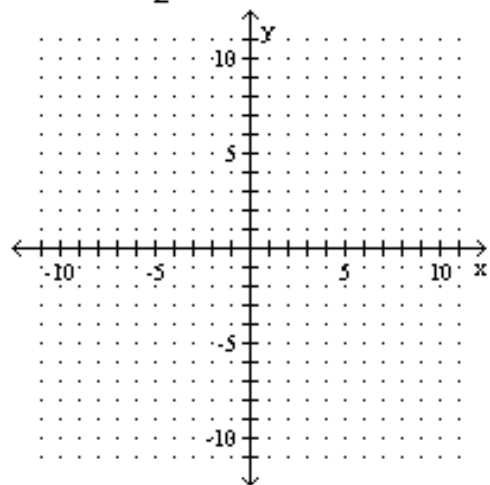
8) $\log x = -4$

9) $\log_4(x - 2) = -1$

10) $10 - \log_5(x + 9) = 9$

Graph the function.

14) $f(x) = \log_2(x - 1)$.



Solve the exponential equation.

11) $4^{(9 - 3x)} = 64$

12) $7^{7x} = 2401$

13) $3x^2 + 5x = \frac{1}{729}$

15) $g(x) = \log x + 4$.

