

NAME:

DATE: _

Solving Logarithmic Equations

Solve each equation.

 $1 \cdot \log(3x + 1) = 3$

 $2 \log_5(x-1) = 4$

3. $\log_{12}(7x-6) = \log_{12}(4x+9)$

4. $\log(x+2) - \log(x) = 2$

5.
$$\log_3(x-4) + \log_3 9 = 6$$

6. $\log_7 x = \log_6 27 + \log_6 8$

- 7. $\log_{X} 16 + \log_{X} 32 \log_{X} 2 = 2$
- 8. $(\log_{40}40)^9 + (\log_{40}1)^{10} = x 1$

$$9. \frac{\log_4 2 + \log_4 32}{\log_2 24 - \log_2 3} = \log_7(x)$$

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SOLUTIONS

