



Solving Logarithmic Equations

Name: _____

Date: _____



Solve each equation.

1) $2 \log 7 - 2x = 0$

2) $\log_2 x + \log_2(x - 2) = 3$

3) $\log_3(2x + 1) = 2$

4) $\log(3x - 2) = 2$

5) $\log x + \log(x - 1) = \log(4x)$

6) $\log x + \log(x - 3) = 1$

7) $\log_9(x - 5) + \log_9(x + 3) = 1$

8) $\log_6(9 - 7x) - 7 = -6$

9) $-4 \log_6 -x = -4$

10) $\log_7 4x - \log_7 9 = 1$

11) $\log_2(x) + \log_2(x + 4) = 5$

12) $\log_4(2x + 6) - \log_4(x - 1) = 1$



QUIZ ?

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Answers



Solve each equation.

$$1) 2 \log 7 - 2x = 0$$

$$x = \log 7$$

$$2) \log_2 x + \log_2(x - 2) = 3$$

$$x = 4$$

$$3) \log_3(2x + 1) = 2$$

$$x = 4$$

$$4) \log(3x - 2) = 2$$

$$x = 34$$

$$5) \log x + \log(x - 1) = \log(4x)$$

$$x = 5$$

$$6) \log x + \log(x - 3) = 1$$

$$x = 5$$

$$7) \log_9(x - 5) + \log_9(x + 3) = 1$$

$$x = 6$$

$$8) \log_6(9 - 7x) - 7 = -6$$

$$x = \frac{3}{7}$$

$$9) -4 \log_6 -x = -4$$

$$x = -6$$

$$10) \log_7 4x - \log_7 9 = 1$$

$$x = 15.75$$

$$11) \log_2(x) + \log_2(x + 4) = 5$$

$$x = 4$$

$$12) \log_4(2x + 6) - \log_4(x - 1) = 1$$

$$x = 5$$



QUIZ ?

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