

Solving Logarithmic Equations ... Set 2

SOLVING LOGARITHMIC EQUATIONS

Directions: Solve each logarithmic equation. Remember to check for extraneous solutions!

1.) $\log(5x) = \log(2x + 9)$

2.) $\log(10 - 4x) = \log(10 - 3x)$

3.) $\log(4p - 2) = \log(-5p + 5)$

4.) $\log(4k - 5) = \log(2k - 1)$

5.) $\log(-2a + 9) = \log(7 - 4a)$

6.) $2\log_7(-2r) = 0$

7.) $-10 + \log_3(n + 3) = -10$

8.) $-2\log_5(7x) = 2$

9.) $\log(-m) + 2 = 4$

10.) $-6\log_3(x - 3) = -24$

11.) $\log_{12}(v^2 + 35) = \log_{12}(-12v - 1)$

12.) $\log_9(-11x + 2) = \log_9(x^2 + 30)$