

Name _____ Algebra 2 Logarithm worksheet

Solve each equation

1. $\log_2(3x-2) = \log_2(2x+6)$

2. $\log_4(1-2x) = \log_4(x+10)$

3. $\log_4(1-2x) + \log_4 3 = \log_4 9$

4. $2^x = 256$

5. $4^{3y} = 8^{y-3}$

6. $\log_5 x - \log_5 10 = \log_5 4.2$

Rewrite using logs:

7) $2^x = 30$

8) $5^3 = 125$

9) $a^b = c$

Solve: 10) $5^x = 25$

11) $27^x = 9$

12) $27^x = 9$

13) $\log_7 x = 2$

14) $x^2 - 4 = 0$

15) $2y^2 - 72 = 0$

16) $a^3 = -8$