

Algebra 2 Honors

Name_____

Homework – Solving Exponential and Logarithmic Equations

1. $-6 = \log_2 x$ 1._____

2. $10^x = 47$ 2._____

3. $\log_9 729 = x$ 3._____

4. $5^{-2x+1} = 15$ 4._____

5. $8^{\log_8 9} - \log_4 16$ 5._____

6. $\log_8(x + 1) = \log_8(2x - 2)$ 6._____

$$7. \quad \log_7(6x + 4) = \log_7(-3x - 5) \quad 7. \underline{\hspace{2cm}}$$

$$8. \quad \log_5(x + 5) = 3 \quad 8. \underline{\hspace{2cm}}$$

$$9. \quad \log_2 x + \log_2(x - 4) = 5 \quad 9. \underline{\hspace{2cm}}$$

$$10. \quad \log x + \log(x - 3) = 1 \quad 10. \underline{\hspace{2cm}}$$