

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. $\log_7(6x + 4) = \log_7(-3x - 5)$ 7._____

8. $\log_5(x + 5) = 3$ 8._____

9. $\log_2 x + \log_2(x - 4) = 5$ 9._____

10. $\log x + \log(x - 3) = 1$ 10._____