Algebra 2 Name_____

Solve Logarithm Equations

Period____

Solve each equation.

1) $\log_5 x = -2$

2) $\log_{12} v = 1$

3) $\log x - 4 = -6$

4) $\log_4 x - 7 = -8$

5) $-1 + 6\log_2 x = -7$

6) $5 - 4\log_{12} b = 13$

7) $\log_{11}(v - 7) = 1$

8) $\log(r - 3) = -2$

9) $8\log_2(n+3) = -8$

10) $-3 + \log_{11}(x-5) = 1$

11) $2 - 2\log_2(k+10) = 4$

12) $-3\log_{12}(n-5) - 5 = -11$

Solve each equation. Round your answers to the nearest ten-thousandth.

13) $-7 + \log_7(-8k-10) = -5$

14) $\log_4(-3v-10) + 9 = 7$

15) $-2 + 2\log_6(8v-3) = -2$

16) $-3 - \log_3(-2v-2) = -2$