

Solving Log and Exp Equations

Date _____ Period _____

Solve each equation.

1) $25^{2x-3} = 125$

2) $27^{3n} = 9^{3n+2}$

3) $64^{-v} = 4^2$

4) $216^{3k-3} = 36^{2k+1}$

5) $6^{-n} = 216$

6) $16^{3v} = \frac{1}{4}$

7) $\log_4 x = 3$

8) $\log n = 4$

9) $-6 \log_2 n = -24$

10) $7 \log_3 a = 21$

11) $\log_9 (b+7) - 9 = -8$

12) $6 \log_3 (p-5) = 12$

13) $-2 + \log_4 (-3v+5) = -4$

14) $-2 \log_5 2b+7 = 9$