

Log Equations Part 2

Date _____ Period _____

Solve each equation.

1) $\log_7 2a = \log_7 (3 - a)$

2) $\log_3 (5p - 9) = \log_3 (3p - 3)$

3) $\log_6 (-4k - 3) = \log_6 (k + 7)$

4) $\log (6 - 4n) = \log (n + 4)$

5) $\log_5 (-3p - 1) = \log_5 -2p$

6) $\log_{19} (3n + 8) = \log_{19} 4n$

7) $\log_{20} (3v - 6) = \log_{20} (10 - v)$

8) $\log (-4x - 6) = \log -2x$

9) $\log -40x = 1$

10) $\log_5 \frac{x + 10}{6} = 1$

11) $\log_7 -40x = 1$

12) $\log_8 -6x = 2$

13) $\log_9 (4x + 20) = 1$

14) $\log_5 (3x + 30) = 3$

15) $\log_6 -45x = 4$

16) $\log_8 (2x - 2) = 2$