

Logarithms WS #2

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Solve each equation. REMEMBER TO CHECK YOUR ANSWERS!!

1) $\log_6 (-3k - 10) = \log_6 (7 - k)$

2) $\ln (5a + 4) = \ln a$

3) $\log_{17} (-6x - 2) = \log_{17} (x^2 - 29)$

4) $\log_{20} (x + 2) = \log_{20} x^2$

5) $\log_6 (p - 1) = 3$

6) $\log (n + 3) = 2$

7) $\log_3 (k - 5) = 3$

8) $4\log_6 -2m = 8$

$$9) \log_9 (n-1) - 9 = -5$$

$$10) \log_{12} -x - 1 = -2$$

$$11) -8\log_8 (10p-6) = 16$$

$$12) \log_2 (-2n+7) - 4 = 0$$

$$13) 9\log_9 (3m+9) = 9$$

$$14) 5 + \log_4 (6x+5) = 4$$

$$15) 10\log_9 (-8x-10) + 6 = 6$$

$$16) -6\log_6 (-8n-5) - 10 = -16$$

$$17) 3\log_4 (2-3b) - 6 = -6$$

$$18) -2\log_2 (-2b-9) - 4 = -4$$