

Solving Logarithmic and Exponential Equations Notes

Solve each equation. Show your work.

1) $2\log_2 -3k = -4$

2) $-8\log_3 (3b - 8) - 5 = 3$

3) $-10 - 3\log_{12} (7b - 7) = -16$

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

4) $5^{-4b} + 4 = 87$

5) $4 \cdot 17^{-6k - 8} + 10 = 91$

6) $2 \cdot 4^{-8x - 7} - 9 = 42$