

Solving Exponential and Log Equations (Day 1)

Solve for x. Round answers to the nearest thousandth.

1) $\log_7(2-x) = \log_7 5x$

2) $\log_6(x+3) - \log_6(x-1) = \log_6 7$

3) $8 + 4\ln x = 6$

4) $2\log_3 4x = 6$

5) $9^{x-4} = \left(\frac{1}{81}\right)$

6) $16 - 7e^x = 2$

$$7) 5(3^{x-1}) = 25$$

$$8) e^{2x-7} = e^{5x+4}$$

$$9) 5^{\sqrt{x}} = 25$$

$$10) 8^{x+1} = 32$$

$$11) \ln(x+2) - \ln(4) = 3$$

$$12) \log_3(5x + 13) - \log_3(3x) = \log_3 6$$