

College Algebra Worksheet (5)

Solve Logarithmic Equations

Solve the logarithmic equations

1. $2 \log_4(x) + 3 = 0$

2. $\log_4 x + \log_4(2x + 1) = 0$

3. $\log x - \log(x^2 - 1) = -2 \log(x - 1)$

4. $2 \ln(x + 3) - \ln(x + 1) = 3 \ln 2$

5. $\log_2(2x - 9) = 2 - \log_2(x - 1)$

6. $\log(x - 2)(2x - 3) = \log x^2$

7. $\log_x\left(\frac{1}{9}\right) = 2$