

Pre-Calculus

Solve advanced exponential and logarithmic equations. Give the EXACT answer.

1. $e^{2x} - 5e^x + 6 = 0$

2. $e^{2x} - 5e^x - 6 = 0$

3. $6e^{1-x} - 25 = 0$

4. $3e^{2x} - 962 = 0$

5. $e^{0.09x} - 3 = 0$

6. $e^{0.125x} - 8 = 0$

7. $\ln x - \ln(x - 1) = 2$

8. $\ln(x + 1) - \ln(x - 1) = 8$

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

10. $\ln x + \ln(x + 5) = \ln(x + 4)$

11. $\ln(x + 5) = \ln(x - 1) - \ln(x + 1)$

12. $\ln(x - 5) = \ln(x - 3) + \ln(x + 3)$