UNIT 5 WORKSHEET 9
Exponential and Logarithmic Equations 1

Solve each of the following. (Round answers to 3 decimal places)

1) \(3^{2x-4} = 5\)  
2) \(3^{5x+6} = 4^x\)  
3) \(5^{2x-4} = 3^{4x-5}\)

4) \(\left(1 + \frac{0.10}{12}\right)^{12t} = 2\)  
5) \(\ln x + \ln(x-2) = 1\)  
6) \(e^{2x} = 7\)

7) \(2 - 6\ln 3x = 10\)  
8) \(\log_2 x + \log_2(x+2) = \log_2(x+6)\)  
9) \(e^{2x} + 3e^x - 10 = 0\)