

YOU MUST SHOW ALL YOUR WORK TO RECEIVE CREDIT!

Solve each equation.

1) $2(5 - 3x) = \frac{1}{16}$

1) _____

2) $e^{3x} = 6$

2) _____

3) $\log_2(x - 3) + \log_2(x - 9) = 4$

3) _____

4) $\ln(x - 10) - \ln(x + 3) = \ln(x - 3) - \ln(x + 6)$

4) _____

5) $47^x = 3.5$

5) _____

6) $2\log x - \log 5 = \log 125$

6) _____

7) $4^x + 10 = 8^x - 6$

7) _____

8) $e^{2x - 9} - 10 = 1407$

8) _____

9) $\log(5 + x) - \log(x - 4) = \log 4$

9) _____

10) $4^x + 4 = 5 \cdot 2^x + 5$

10) _____