Logarithmic Equations

Solve each logarithmic equation.

1) $3 \log_2 x - \log_2 6 = \log_2 36$

2) $\log_3 x - 3 \log_3 2 = 2 \log_3 3$

x = _____

x = _____

3) lo

x

5) lo

x

7) lo

x = _____

x = _____

9) $\log_5 (x-2) - \log_5 4 = \log_5 (2x+3)$

10) $\log_3 (4+x) + \log_3 24 = 4 \log_3 6$

x = _____

x = _____