① $\frac{-8.6e^{-10x}}{-8.6} = \frac{-38}{-8.6}$

$\ln e^{-10x} = \ln\frac{38}{8.6}$

$\frac{-10x}{-10} = \frac{\ln(38/8.6)}{-10}$

$x \simeq -.1486$

③ $-3 \cdot 10^{p+4} - 2 = -100$

$+2 \quad +2$

$\frac{-3 \cdot 10^{p+4}}{-3} = \frac{-98}{-3}$

$10^{p+4} = 98/3$

$\ln(10)^{p+4} = \ln(98/3)$

$(p+4)\frac{\ln(10)}{\ln(10)} = \left(\frac{\ln(98/3)}{\ln(10)}\right) - 4$

$p \simeq -2.4859$

can always ln or use log, but remember that $\ln(e) = 1$:)

May 2-8:31 AM