

$$A(t) = A_0 e^{-kt}$$

$$A(0) = A_0 = 2.3$$

$$A(t) = 2.3 e^{-kt}$$

$$A(24) = 2.3 e^{-24k} = 1.9 \quad \text{Solve for } k =$$

$$e^{-24k} = \frac{1.9}{2.3}$$

$$-24k = \ln\left(\frac{1.9}{2.3}\right)$$

$$k = \frac{\ln\left(\frac{1.9}{2.3}\right)}{-24} = (-) 1/24 * \ln(1.9/2.3)$$

After 96 hours!

$$A(96) = 2.3 e^{-96k} = 2.3 * e^{(-) 96 * \ln(1.9/2.3) / (-) 24}$$

\approx

TI's are pretty smart about $2.3e$ meaning $2.3 * e$, but I always put the "*" in there.

The "(-)" is the negation key, which is different from mere subtraction "-".