## Curve 1

$$V = V_{f}(1 - e^{-\frac{1}{2}/\tau})$$

$$1 - \frac{1.97}{3.15} = e^{-\frac{1}{7}}$$

$$1 - \frac{1.97}{3.15} = e^{-t/\tau}$$
 $1.97 = 3.15(1 - e^{-t/\tau})$ 

$$\left| n \left( 1 - \frac{1.97}{3.15} \right) \right| = -0.05 / 7$$

$$\gamma = \frac{-0.05}{\left| \sqrt{1 - \frac{1.97}{7.15}} \right|} = 0.051$$

closert value is 51ks and indeed looks

$$R = \frac{1}{R_1 + R_2}$$

$$\gamma = 0.1$$

$$\gamma = 0.1 \qquad \frac{0.7}{6.600001} = 100 \text{ kg} \qquad \qquad \begin{cases} \rho_z = 100 \text{ kg} \end{cases}$$

$$\int O|r = \frac{1}{R_1} + \frac{1}{100R}$$

$$R_1 = 100R$$

Using there resistors does coorelate with the graph