1H. Exponentials and Logarithms: Algebra

$$\frac{y}{y_0} = e^{-kt}$$

$$-kt = ln\left(\frac{y}{y_0}\right)$$

$$f = \frac{ln(\frac{\lambda}{\lambda})}{-k}$$

$$\lambda = \frac{\ln(\frac{1}{a})}{-h} = \frac{\ln \lambda}{h}$$
 Substitute $\frac{y_0}{a}$ for y

$$y_{\lambda} = y_{0} e^{-\kappa(t_{1} + \lambda)}$$

$$= y_0 e^{-ht_1} \cdot \frac{1}{\lambda} y_0$$

$$\left[\partial^{9} = \partial^{1} \cdot \frac{9}{7} \partial^{9} \right]$$

$$= -\log_{10} \frac{1}{a} - \log_{10} [H^{\dagger}]$$

$$= -\log_{10}\frac{1}{a} + \rho H_0$$

$$\rho H_1 - \rho H_0 = -\log_{10} \frac{1}{a} = 0.301$$

$$\ln(y+1) + \ln(y-1) = \lambda x + \ln x$$

$$\ln\left(\frac{\lambda^{2}-1}{\lambda}\right)=2\lambda$$

$$\frac{y^{\lambda-1}}{x} = e^{\lambda x}$$

$$y=(xe^{ax}+1)^{1/a}$$

$$y = e^{x} + \frac{1}{e^{x}}$$

$$y = u + \frac{1}{u} \frac{3}{3} u = e^{x}$$

$$U = \frac{9 \pm (y^3 - 4)^{1/3}}{-3}$$

$$e^{x} = \frac{9 \pm (y^{2} - 4)^{1/2}}{-2}$$

$$x = \ln\left(\frac{y \pm (y^2 - 4)^{1/2}}{-2}\right)$$