

WED 03-15-06

"THE IDES OF MARCH"

"SCORE" AP 2003 # 5

TEST THUR: 7:30-8:30

6.1, 6.2, 6.4, 6.5

P.33B

(25)

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

$$800 = 1000 \cdot e^{-k(10)}$$

$$\frac{4}{5} = e^{-k \cdot 10}$$

$$\ln\left(\frac{4}{5}\right) = \ln e^{-10k}$$

$$\ln\left(\frac{4}{5}\right) = -10k \cdot \ln e$$

$$\frac{\ln\left(\frac{4}{5}\right)}{-10} = k$$

(48) (Ex 3 p. 332)

$$\underline{y_0} \cdot e^{-kt} = \underline{.995 \cdot y_0} = y$$

$$e^{-kt} = .995$$

$$k = \frac{\ln 2}{5200}$$