Section 10.1 Solutions

#35 $\frac{A}{P} = 2$ $A = Pe^{rt}$ $r = 4\%$ $t = ?$

$$\frac{A}{P} = e^{rt}$$

$$\ln\left(\frac{A}{P}\right) = \ln(e^{rt}) = rt$$

$$t = \frac{1}{r}\ln\left(\frac{A}{P}\right) = \frac{1}{.04}\ln 2$$

$$t \simeq 17.33 \text{ yrs}$$