

p.175 #9,10,15-18

10. \$5400 3.6% compounded annually, 10 years

$$y = ac^{bx}$$

$$y = 5400(1.036)^x$$

or  $A = P\left(1 + \frac{i}{n}\right)^{nt}$

$$= 5400\left(1 + \frac{0.036}{1}\right)^{1t}$$

$$15. \quad N = \underline{N_0} e^{-\frac{7}{20}x}$$

$$N = 100 e^{-\frac{7}{20}(1)}$$
$$= 100 (0.7041)$$

$$= 70.41$$

$$\frac{70.41}{100} \times 100\% = 70.41\%$$

or

$$\frac{N}{N_0} = e^{-\frac{7}{20}x}$$

↑  
%. remaining