

1a) $P_n = 28(1.03)^n$

b) \$37.63

c) \$67.96

d) 2016

e) 2045

2a) $B_n = 3000(1.167)^n$

b) 8843 bacteria

c) 308,494 bacteria

d) 7.8 days after

e) 52.5 days after

3a) $D_n = 100(0.68)^n$

b) 9.9%

c) 0.2%

d) 5.97 hours

e) 11.94 hours

f) cannot be done