Section 6-5 : Applications

1. We have \$2,500 to invest and 8 account that has an annual interes		ney will we have if we put the money into an scompounded
(a) quarterly	(b) monthly	(c) continuously
_		o an account that earns an annual interest unt to reach \$100,000 if the interest is
(a) quarterly	(b) monthly	(c) continuously
3. Suppose that we put some mon will it take to triple our money if the (a) twice a year		an annual interest rate of 10.25%. How long (c) continuously
,	has 90,000 present and ir	n 2 weeks there will be 200,000 bacteria pulation.
5. We initially have 2 kg grams of s (a) Determine the exponential do (b) How long will it take for half of (c) How long will it take until the	ecay equation for this elen of the element to decay?	
6. For a particular radioactive elem $k=-0.000825$. (a) How long will it take for a quality (b) How long will it take for half (c) How long will it take 90% of the second seco	arter of the element to dec of the element to decay?	xponential decay equation is given by