

7. From 2002 to 2012, the bird population on an island can be modelled by the logarithmic function,  $y = 250 \ln x$ , where  $y$  represents the number of birds and  $x$  represents the time, in years, after 2000.

a) Explain whether or not the bird population is increasing or decreasing. 2 mks

Graph it and look (But windows are  
 $[x] -10, 10000, 100]$   
 $[y] -10, 10000, 100]$   
 It is increasing

b) Estimate the bird population in 2010. 2 mks

2000  $\Rightarrow x=0$  Go to Table  
 2010  $\Rightarrow x=10$   
 The population in 2010 would be 575 birds  
 (Remember, cannot have part of a bird)

8. The radioactive element cobalt-60 can be used to treat cancer patients. Radioactive elements decay into other elements in a predictable way over time. The percent of cobalt-60,  $A(t)$ , left in a sample can be modelled by the half-life function,

$$A(t) = A_0 \left(\frac{1}{2}\right)^{\frac{t}{5.3}}$$

where  $t$  represents the time, in years, after the initial time and  $A_0$  represents the initial amount, 100%, of the cobalt-60.

a) How long does it take for the sample of cobalt-60 to reduce to half its initial amount? 1 mk

The half life is 5.3 years

b) What percent of cobalt-60 will remain in a sample after 10 years? Round to the nearest percent. 2 mks

$$A(t) = 100 \left(\frac{1}{2}\right)^{\frac{10}{5.3}} = 27.04$$

There would be 27% left

c) Determine how long it will take, to the nearest tenth of a year, until only 10% of the cobalt-60 remains. 2 mks

$10 \rightarrow 10 = 100 \left(\frac{1}{2}\right)^{\frac{x}{5.3}}$  } Find Intersection  
 17.6 =  $x$  } It takes 17.6 years

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**David Baud**



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