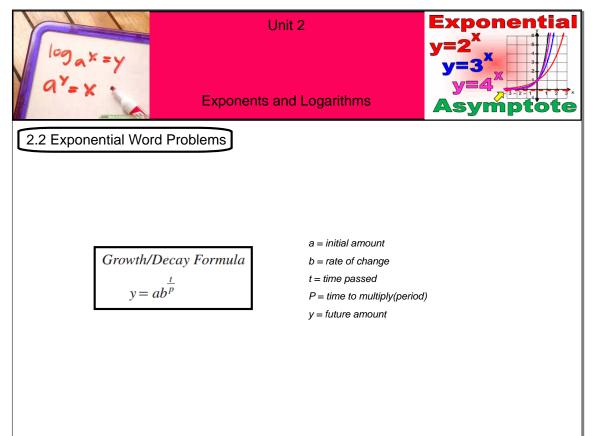
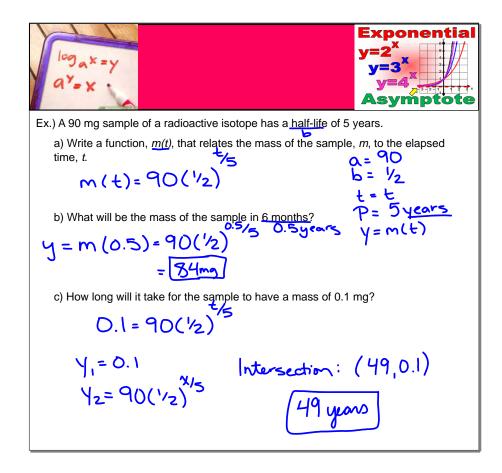
2.2 Exponential Word Problems.notebook

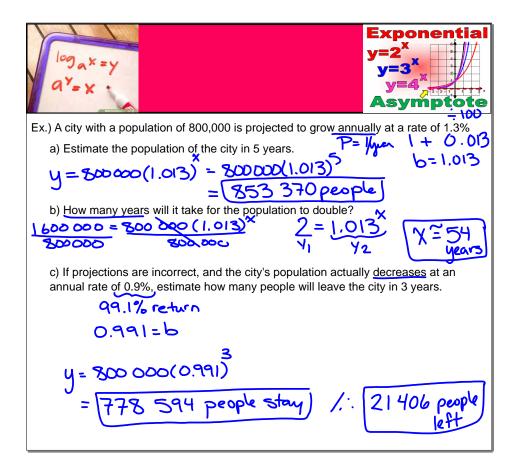




2.2 Exponential Word Problems.notebook

September 23, 2016

Icgax=y y=2x Q ^Y =x y=4x Asymptot	
Ex.) A bacterial culture containing 800 bacterial initially will double every 90 minutes. a) Write a function, $B(t)$, that relates the number of bacteria, B , to the elapsed time, t. y = B(t) = 800(2)	
b) How many bacteria will exist after 8 hours? $8 \frac{60}{10} = 480 \frac{1}{10}$ B (480) = 800(2) = 32 254 bacteria c) How long ago did the culture have 50 bacteria?	iin
$50 = 300(2)^{1/90}$ $Y_1 = 50$ $Y_2 = 300(2)^{1/40}$ $Y_2 = 300(2)^{1/40}$ (-340, 50) (-340, 50) (-340, 50) (-360, 50) (-360, 50) (-360, 50) (-360, 50) (-360, 50) (-360, 50) (-360, 50) (-360, 50) (-360, 50)	



2.2 Exponential Word Problems.notebook

