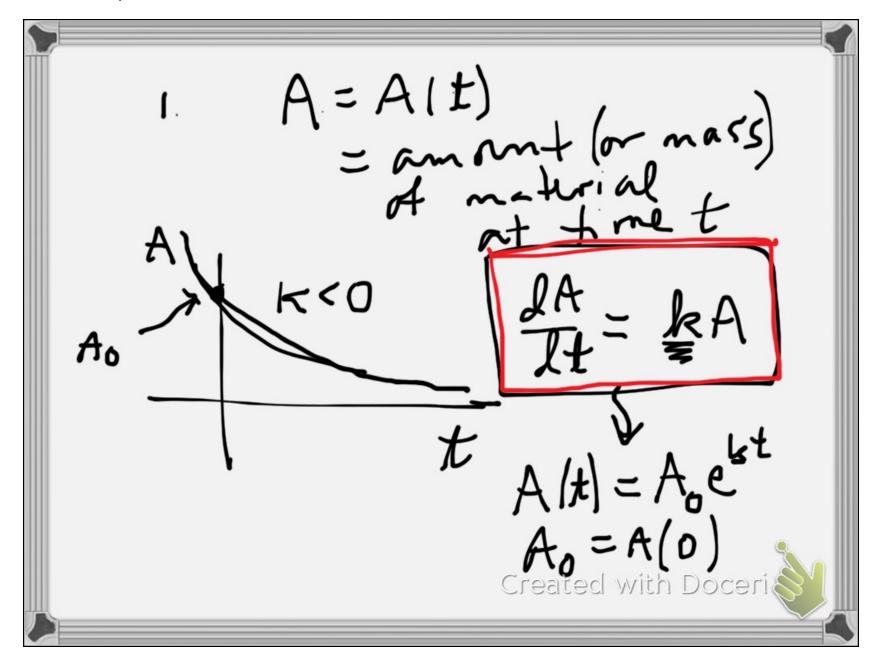


mas162.03.23.pdf Page 2 of 9

Review (47 Exam 3 8 ports Office Hows by appt. 7.5 Ex 4 "radioactive documents 420 days and deciments by 30% (a) half life? Created with Doceri



mas162.03.23.pdf Page 4 of 9

(a) 
$$t = 420$$

A goes from 40

 $420 \text{ days} \rightarrow .740$ 
 $A_0 = .34$ 
 $A$ 

mas162.03.23.pdf Page 5 of 9

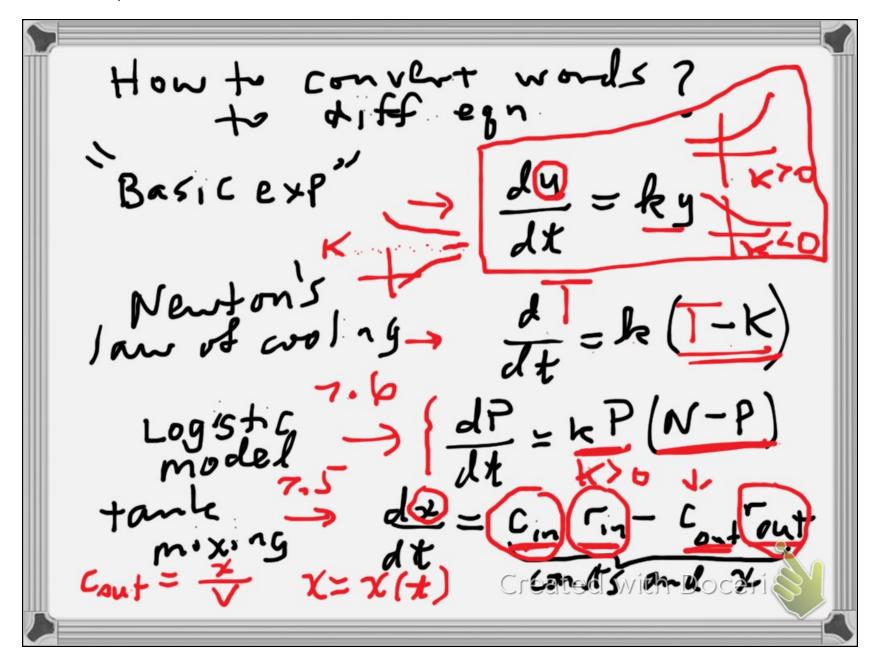
(b) 
$$98 = 100e^{ht} t = 7$$

$$k = knimm$$

$$98 = e^{\frac{\ln(.7)}{420}t}$$

$$\ln(.98) = \ln(.7) t$$

$$t = \frac{420 \ln(.98)}{\ln(.7)}$$
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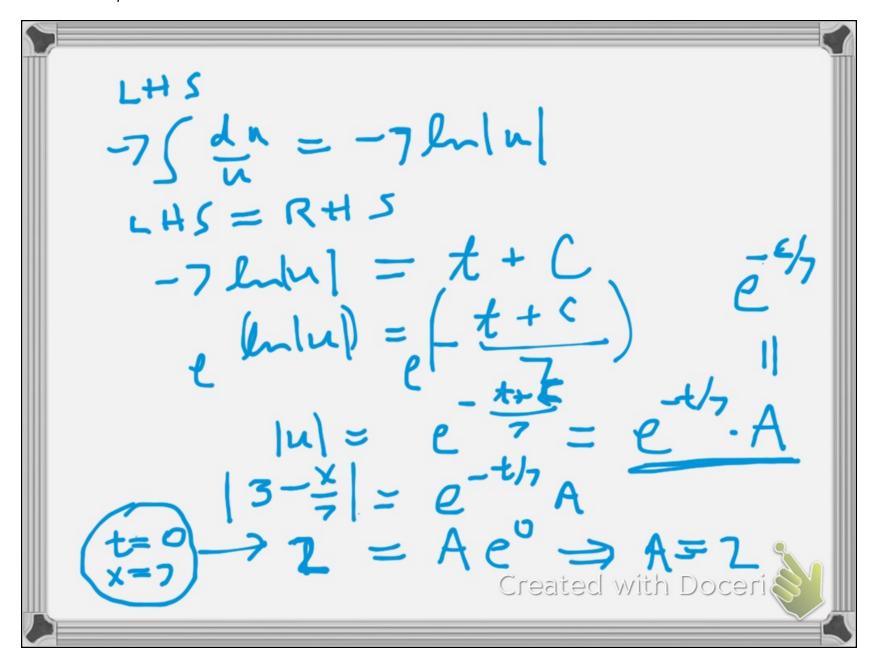


mas162.03.23.pdf Page 7 of 9

Solve

$$\frac{dx}{dt} = \sqrt{3} - \frac{x}{7}$$
 $x_0 = \chi(0) = \frac{7}{7}$ 
 $x_0 = \chi(0) = \frac{7}{7}$ 

mas162.03.23.pdf Page 8 of 9



mas162.03.23.pdf Page 9 of 9

