y'=-ky -> y'+ky=0 $y(0) = y_0 / y(t_h) = \frac{y_0}{2}$ It: eskat sekt :) * (b. et) * = (0. et) dt yekt = C -> yg = Ce-kt yo = (e-k(o) -> y = (-> y (t) = y e-kt -> y(th)=y,e-kth = yo= y,e-kth => 1= 40 = kth = ln(1/2) -> $t_h = \frac{|\eta(1) - |\eta(2)|}{-k} \Rightarrow t_h = \frac{|\eta(2)|}{k}$

$$\frac{dS}{dt} = rS+d \rightarrow S-rS=d$$

$$\frac{1}{3} = s - rdt \rightarrow e^{-rt}$$

$$\frac{1}{3$$