

$$\frac{V_0}{V_0} = \frac{2\cos s}{|40s^2 + 203s + 30}$$

$$u(t) = \begin{cases} 0 & t & c \\ 1, & t & > 0 \end{cases}$$

$$\frac{L}{U} = \frac{1}{s}$$

$$|et V_1(s) = \frac{L}{u_0}$$

$$= \frac{1}{(40s^2 + 203s + 30)}$$

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$$= \frac{1}{(40s^3 + 205s + 30)}$$

$$= \frac{1}{2} \frac{1}{(5s^2 + \frac{1}{4s^2} + \frac{3}{14s})} \frac{1}{(40s^2 + \frac{3}{14s})}$$

$$= \frac{1}{7} \frac{1}{(5s^2 + \frac{1}{4s^2} + \frac{3}{14s})} \frac{1}{(5s^2 + \frac{1}{4s^2} + \frac{3}{14s^2})}$$

$$= \frac{1}{7} \frac{1}{(34s^2 + \frac{1}{2})} \frac{1}{(5s^2 + \frac{1}{4s^2} + \frac{3}{14s^2})}$$

$$= \frac{1}{7} \frac{1120s}{34s^3 + \frac{1}{2}} e^{\frac{1}{4s^2} + \frac{1}{2}} \frac{1}{(1120s)}$$

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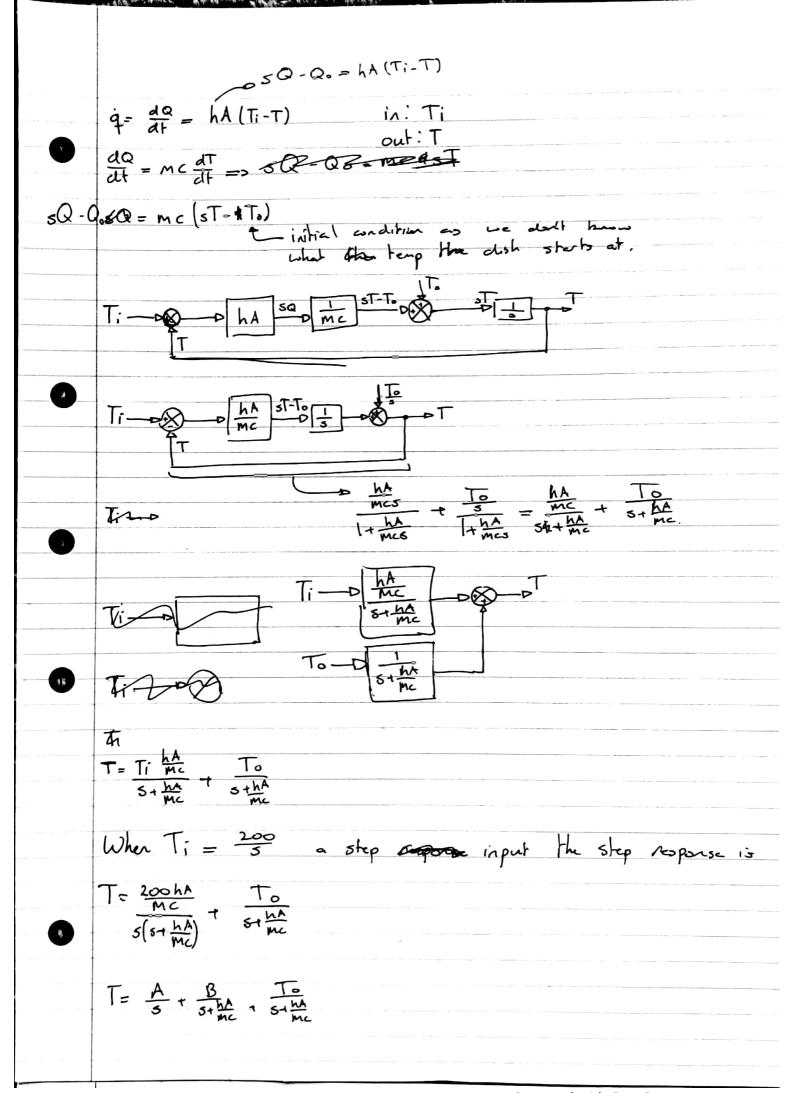
$$= \frac{1}{7} \frac{1}{1120s} e^{\frac{1}{4s^3} + \frac{1}{2}} \frac{1}{(1120s)}$$

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$$= \frac{1}{1} \frac{1}{1120s} e^{\frac{1}{4s^3} + \frac{1}{2}} \frac{1}{(1120s)}$$

$$= \frac{1}{1} \frac{1}{1120s}$$

$$= \frac{1}{1} \frac{1$$



	A = $\frac{2ahA}{mc}$ $S = \frac{2ahA}{mc}$ $S = \frac{2ahA}{mc}$ $S = \frac{2ahA}{mc}$ $S = \frac{2ahA}{mc}$
	ع - 200
	T= 200 m - 200 To 5+hA mc 5+hA mc
	T(1)
	T(+) = 200 # + (To-200) e mc t We have!
	h = 100 m2k C = a45 JK
	We don't have
	M A T.
	the values For those variables.
•	we shall assume M. I kg or 1000 g, A = In2 and To is a room temp of 20.2
	00 = 200 + (20 - 200) e WORD. 45
	-120190>e
	e = 1 = 3
	-2 t 1 / (3) 0.405465
	t = 1.825913 seconds.
	so for the above conditions it takes 1.83 seconds to go from 20°C to 200°C.