

General Heat Egn.

$$-k\left(\frac{1}{k}\cdot\frac{9}{b}e^{-bx}+c_{1}\right)=h.\left(T_{\infty}-T_{s_{2}}\right)(*)$$

$$T(a.b)$$

at 
$$x=0$$
  $\frac{dT}{dt}=0$ 

$$\Rightarrow \pm \cdot \frac{9}{5}e^{-bx} + c_{1}$$

$$q''_{x} = -k \cdot \frac{dT}{dx}$$

$$q''_{x} = -k \cdot \left(\frac{L}{L} \cdot \frac{qe^{bx}}{e^{bx}} + \left(-\frac{q}{kb}\right)\right)$$
(b.)

$$\frac{d\tau}{dx} = 0 \Rightarrow \frac{1}{2} \cdot \frac{\partial}{\partial e} = \frac{1}{2} \cdot \frac{\partial}{\partial e} = 0$$

$$-\frac{k}{h}\left(\frac{1}{k},\frac{q}{b}e^{-b.(a,b)}+\left(-\frac{q}{kb}\right)\right)=T_{\infty}-\left(\frac{1}{k},\frac{-q}{b^2}e^{-b.(a,b)}+\left(-\frac{q}{kb}\right)(a,b)+c_2\right)$$
put the numbers and

we have found C1 and C2, rewrite T(x) by putting (1 and (2 into T(x)