T, 
$$\frac{L}{dx^{i}} = 0 \rightarrow \frac{dT}{dx} = C_{1} \rightarrow T(x) = C_{1}x + C_{2}$$
  
Apply boundary conditions:  
 $T_{2}$   $Q x = 0, T = T_{1} \rightarrow C_{2} = T_{1}$   
 $Q x = L, T = T_{2} \rightarrow T_{2} = C_{1}L + T_{1} \rightarrow C_{1} = \frac{T_{2} - T_{1}}{L}$   
What is  $T(x)$ ?  
 $\therefore T(x) = \left(\frac{T_{1} - T_{1}}{L}\right)x + T_{1} = Now we have Tevry three in the wall$   
 $\frac{dT}{dx} = \frac{T_{2} - T_{1}}{L}$   
 $Q'' = -k \frac{dT}{dx} = -k \left(\frac{T_{2} - T_{1}}{L}\right)$ 

$$L_{3} e_{x}: \frac{dT}{dx} = fixed$$