$$t' + t - \frac{1}{n^2 \ell^2} = 0$$

$$t_1, t_2 = -\frac{1}{2} + \frac{1}{2} + \frac{1$$

Since RHS is a constant let ap = K $\frac{-K}{M^2 x^2} = \frac{-\lambda \Delta T}{M^2 x^2 L}$ $\Rightarrow q_p(x) = \lambda \Delta T$.. 9 (r) = Aetir + Beter + >OT BC one: and $\frac{dq}{dr}\Big|_{r=0}$ q (P) = 0 q(r) = Ae q(r) = Ae $me^{2} + Be$ $+ \Delta \Delta T$ = A + BeSolve with Basel functions.

$$A_{h}(r) = AJ_{o}\left(\frac{r}{ime}\right) + BV_{o}\left(\frac{r}{ime}\right)$$

$$A_{p}(r) = AJ_{o}\left(\frac{r}{ime}\right)$$

$$\therefore q_{b}(x) = AJ_{0}\left(\frac{x}{iml}\right) + BY_{0}\left(\frac{x}{iml}\right) + \frac{\lambda \Delta T}{L}$$

$$\frac{\partial q_{10}}{\partial r}\Big|_{r=0} = 0 \qquad q_{10}(R) = 0$$

$$\frac{\partial q_b}{\partial r} = -\frac{A}{ime} T \left(\frac{r}{ime} \right) - \frac{B}{ime} Y_1 \left(\frac{r}{ime} \right)$$

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$$\frac{\partial q_b}{\partial r} = \frac{A}{ime} T \left(\frac{R}{ime} \right) + \frac{A}{ime} T = 0$$

$$\frac{A}{ime} = -\frac{A}{ime} T \times \frac{1}{J_0} \left(\frac{R}{ime} \right)$$

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