$$\frac{O^2 T}{O x^2} - \frac{O T}{O r} = 0$$

Transverse your Bus:

$$\begin{array}{c|c} 1 & -\frac{\partial T}{\partial \alpha} + h(T - T_0) \Big|_{\alpha = 0} = 0 & 3 \end{array} T \Big|_{\tau = 0} = 0 & \frac{\partial T}{\partial \alpha}(0) = h(T(0, 2) - T_0) \end{array}$$

$$\begin{array}{c|c} 2 & T \Big|_{\alpha = 0} = T_1 & 3 \end{array}$$

Benoweramenthan sagara:

$$X^{1} - \lambda X = 0$$

$$A_{1} = \frac{d^{2}}{d^{2}}$$

$$A_{2} = 0$$

$$A_{1} = \sin\left(\frac{d^{2}(a - a)}{a}\right)$$

$$A_{2} = \sin\left(\frac{d^{2}(a - a)}{a}\right)$$

$$A_{3} = \sin\left(\frac{d^{2}(a - a)}{a}\right)$$

$$A_{4} = \cos\left(\frac{d^{2}(a - a)}{a}\right)$$

$$A_{5} = \cos\left(\frac{d^{2}(a - a)}{a}\right)$$

$$A_{6} = \cos\left(\frac{d^{2}(a - a)}{a}\right)$$

$$A_{7} = \cos\left(\frac{d^{2}(a - a)}{a}\right)$$

$$A_{8} = \cos\left(\frac{d^{2}(a - a)}{a}\right)$$

$$A_{8} = \cos\left(\frac{d^{2}(a - a)}{a}\right)$$

$$A_{8} = \cos\left(\frac{d^{2}(a - a)}{a}\right)$$

$$A_{9} = \frac{d^{2}(a - a)}{a}$$

$$A_{1} = \cos\left(\frac{d^{2}(a - a)}{a}\right)$$

$$A_{2} = \cos\left(\frac{d^{2}(a - a)}{a}\right)$$

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$$-hT(o,\tau)\sin(dn) - T(o,\tau)\left(\frac{dr}{ds}\right) \left(\frac{ha}{dn}\sin(dn)\right) = 0$$

$$+hTo\sin(dn) + T_1 \cdot \frac{dn}{ds} - \lambda_n T - \frac{\partial T}{\partial r} = 0$$

$$\lambda_n T + \frac{\partial T}{\partial r} = hTo\sin(dn) + T_1 \cdot \frac{dn}{ds}$$

$$T_{n.r.} = \frac{A}{\lambda_n} \qquad T_{n.o.} = C_1 e^{-\lambda_n r}$$

$$T_{r=0} = 0 \Rightarrow T|_{T=0} = 0$$

$$\frac{A}{\lambda_n} + C_1 = 0 \Rightarrow C_1 = -\frac{A}{\lambda_n}$$

$$T_n = \frac{A}{\lambda_n} - \frac{A}{\lambda_n} e^{-\lambda_n r} = \left(h \cdot T_0 \cdot \frac{\alpha^2}{dn^2} \sin(dn) + T_1 \cdot \frac{\alpha}{dn}\right) \left(1 - e^{-\lambda_n r}\right)$$