$$F = \underset{3\pi}{\underbrace{\text{Tr}}} F_{\alpha} = \frac{\sin(34)}{\pi t} : w_{o} = 3 \qquad (H(\omega + 3) - H(\omega - 3)) \frac{1}{3\pi}$$

Tutorial - A4!

$$\frac{\partial u}{\partial t} = \alpha \frac{\partial^{2}u}{\partial x^{2}} \quad \text{a)} \quad u(x_{1}t) = X(\alpha) T(t)$$

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$$\frac{\partial u}{\partial t} = \frac{\partial^{2}u}{\partial x^{2}} \quad T$$

$$\frac{\partial^{2}u}{\partial x^{2}} \quad T = \alpha \times \frac{\partial u}{\partial x^{2}}$$

$$\frac{\partial^{2}u}{\partial x^{2}} = X \frac{\partial u}{\partial x}$$

b)
$$5q_{1}(n+q)(n+q-1) \times \frac{n+q-2}{2} + \omega^{2} \sum_{\alpha} \frac{n+q-1}{2} + \omega^{2} \sum_{\alpha} \frac{n+q+3}{2} + \omega^{2$$

S:
$$\Phi = V_0 \cup \omega^3(\theta)$$
 deplace: $\Psi = (A c^0 + B c^{-(l+1)}) P_0^m (\omega s l \theta) (C \omega s (m B) + D \sin (m B))$
 $V = (A c^0 + B c^{-(l+1)}) P_0^m (\omega s l \theta) (C \omega s (m B) + D \sin (m B))$

$$((A - \lambda T)x)^* = 0$$

