$$\frac{\partial \psi}{\partial n} = \psi_0 (-k) \cos(\omega t - kn)$$

$$\frac{3\kappa}{3\mu} = -\kappa h^0 \cos(\kappa t - \kappa u) + (\delta)$$

$$\frac{\partial \psi}{\partial n} + k \psi = 0$$

$$k = 2\pi = k = 4\pi^{\frac{1}{2}}$$

Sub  $k^{\frac{1}{2}}$  in eqn (3)

According to Bohr's theory
$$h = \frac{h}{2\pi} \Rightarrow h = \frac{h^2}{4\pi^2} \Rightarrow h^2 = h^2 + 4\pi^2$$

Subineq (F)

$$\frac{\partial \psi}{\partial x^{2}} + \frac{4\pi}{h} \frac{p\psi}{\psi} = 0$$

$$\frac{\partial^{2}\psi}{\partial x^{2}} + \frac{p\psi}{h} = 0 \quad -6$$
Sub p in eqn (6)
$$\frac{\partial^{2}\psi}{\partial x^{2}} + \frac{2m(\varepsilon-v)}{h^{2}} \psi = 0$$

$$\frac{\partial^{2}\psi}{\partial x^{2}} + \frac{2m(\varepsilon-v)}{h^{2}} (\varepsilon-v) \psi = 0$$

$$E = kE + PE$$

$$kE = \frac{1}{2}mv^{2} = \frac{1}{2}(mv)$$

$$E = \frac{p}{2m} + V$$

$$p^{2} = 2m(E-V)$$

This is Time Independent Schnodinger coave equation in 1 Dimension

Divide by 
$$\frac{2m}{h}$$
  
 $\frac{3\psi}{h} + \frac{2m}{h} (E-V) \psi = 0$   
 $\frac{h}{2m} \frac{3\psi}{3n^2} + (E-V) \psi = 0$   
 $\frac{h}{2m} \frac{3\psi}{3n^2} + E\psi = V\psi$  | Dimension  
 $\frac{h}{2m} \left( \frac{3\psi}{3n^2} + \frac{3\psi}{3y^2} + \frac{3\psi}{3z^2} \right) + E\psi = V\psi$