$$\pi \mp (y) \xrightarrow{a:1} \frac{\pi}{1+t^2} \qquad q = \frac{1}{4} \cdot \sqrt{4\pi} \cdot 6/x \xrightarrow{\text{IFT}} \sqrt{4\pi} \cdot e^{-\frac{t^2/4}{4}}$$

$$\therefore \mp^{-1}(\mp_3/\omega)) = \sqrt{\frac{\pi}{1+t^2}} \sqrt{\sqrt{\pi}} e^{-\frac{t^2/4}{4}}$$

$$(1) = \sin(3)$$

$$F = \frac{1}{3\pi} F_{q} = \frac{\sin(34)}{\pi t} : W_{0} = 3 \qquad \text{if } (W + 3) - H(w - 3) = \frac{1}{3\pi}$$

$$\frac{\partial u}{\partial x} = \alpha \frac{\partial x}{\partial x} \qquad \alpha \qquad u(x,t) = x(x) T(t)$$

$$\frac{\partial u}{\partial x} = \alpha \frac{\partial x}{\partial x} \qquad \alpha \qquad u(x,t) = x(x) T(t)$$

b) 
$$Sq_{n}(n+q)(n+q-1) \times \frac{n+q-2}{4} + \omega^{2} Sq_{n} \times \frac{n+q+3}{4}$$
 $n=n+3$ 
 $Sq_{n+3}(n+q+3)(n+q+2) \times \frac{n+q+3}{4} \times \frac{n+q+3}{n+3}$ 

S: 
$$\Phi = V_0 \omega^3 (6)$$
 deplace:  $\Psi = (A r^0 + B r^{-(l+1)}) P_0^m (\omega s (6)) (C \omega s (m, 0) + D sin (m, 0))$ 

r>a:  $\Phi$ ?

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

