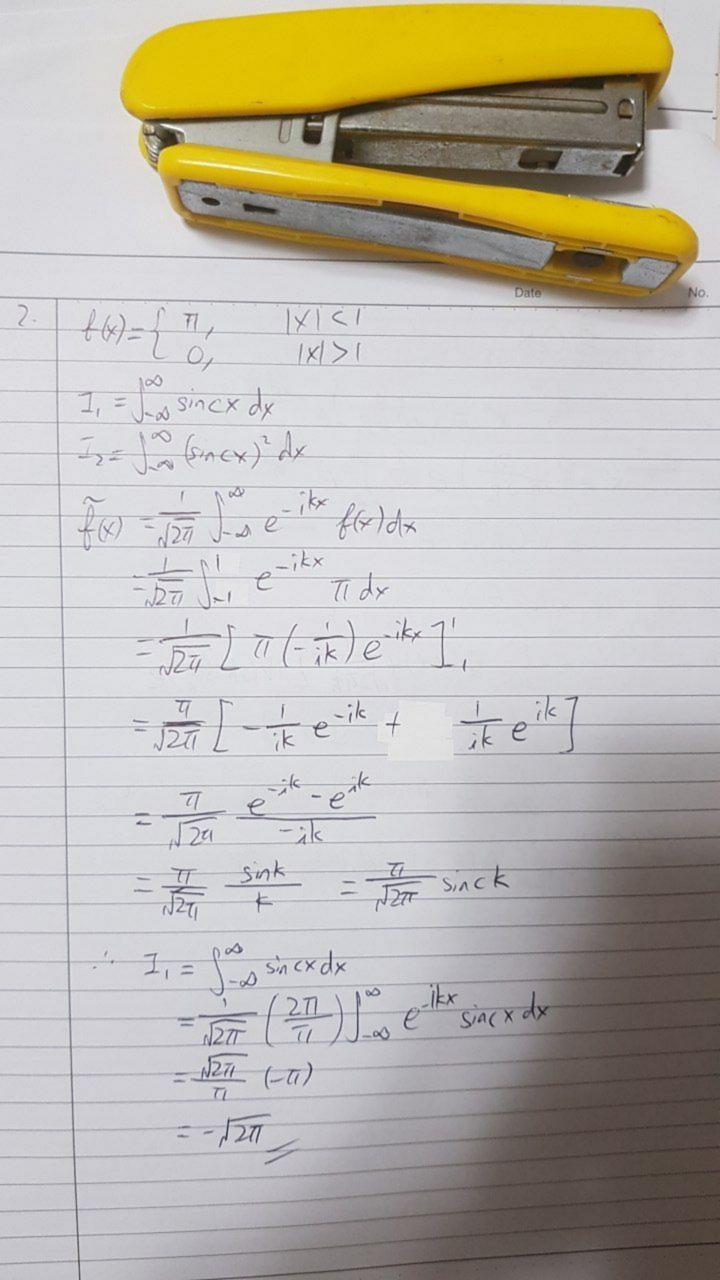
2 0 0 + (R,10) & (R,0) dR=+1000 0 1/4 +,0) 1/4 (B+D) & 1/8 - 1/1814 = + ] = + (+,0) + (4,0) [-1] = (4 + +) & alledydx No. = + ] = D (AH, O) V\* (AH, O) dA = \ \( \( \lambda \) \( \lambd Ja & (R,0) & (R,0) dR 4 A=4, B=4, X-Components: Assynment 9 ON

1. it de = prikt = e isit [- t' + V(r) + V(r) + (7, t) d' + = (27/H) e-int [- th ]dx +(21/4) = Je-1/2 V(x) y (x,t) dx - (1) => e- # 7'4= V. [e-ip.x VY] - Ve-# . DY Evaluating 127/6) [e = 1 = 1 = 7 7 4 (x, t)] dx 271 J29/ [ Je # do ds] - Jve # . VV dx = - it PX e IF X dx xdx = 271, J211 to Je # y(x,t)dx = P (x,t) - (2)

=> V(x) = \$ C, x" Evaluating e-ip-x x1 = (it de)e-ip-x e-10-X V(x) = & Ca (ital) e-10-X  $-V(i\hbar \nabla x)e^{-\frac{2\vec{p}\cdot\vec{x}}{\hbar}}$  — (3) sub (2), (3) into (1) it 20(x,t) = P D(x,t). + Vht3p)S(p-p) (p+t) d3p' = デー西(p,t)+V(はまま) 西(p,t) (shown)





Date

No.

$$=\int_{-\infty}^{\infty} \left[ \frac{f(x)}{f(x)} \right]^2 dx$$

$$=\int_{-\infty}^{\infty} \left[ \frac{f(x)}{f(x)} \right]^2 dx$$

$$=\frac{\pi}{\pi} \left[ \frac{\pi}{\pi} \left( \frac{\pi}{\pi} \right) \right]^2 dx$$

$$=\frac{\pi}{\pi} \left( \frac{\pi}{\pi} \right) = 2\pi$$

$$=\frac{\pi}{\pi} \left[ \frac{\pi}{\pi} \left( \frac{\pi}{\pi} \right) \right]^2 dx$$

convolution 
$$\Rightarrow$$
  $F{g(x+a)*g(x-a)} = F{cosk_o \times}*F{g(x)}$   
=  $\int_{A}^{\infty} \int_{a}^{\pi} \left[ S(k'-k_o) + S(k'+k_o) \right] sinc(x-x') dx$ 

$$= \int_{2\pi}^{\frac{\pi}{2}} \left[ \sin x' - x + \sin x' + x \right]$$

