· 1. Insert. the soln into PDE,

2.
$$\partial i V(x) = \frac{V(x+hei) - V(x-hei)}{2h}$$

 $\partial i V(x) = \frac{V(x+hei) + V(x-hei) - 2V(x)}{2h}$

Let
$$V_{i}^{+}=V(x+hei)$$

 $V_{i}^{-}=V(x-hei)$.
 $=7 \frac{1}{2} \cdot \frac{3}{2} \frac{V_{i}^{+}+V_{i}^{+}-2V(x)}{h^{2}} -V(x)+\chi_{1}^{2}+\chi_{2}^{2}-\chi_{1}-\chi_{2}^{2}-\frac{3}{2}=0$
 $\frac{2+h^{2}}{2}v(x)=\frac{2}{2} V_{i}^{+}\cdot \frac{1}{4}+\frac{2}{2}v_{i}\cdot \frac{1}{4}+\frac{h^{2}}{2}(\chi_{1}^{2}+\chi_{2}^{2}-\chi_{1}-\chi_{2}^{2}-\frac{3}{2})$
 $\frac{2+h^{2}}{2}v(x)=\frac{2}{h^{2}} V_{i}^{+}\cdot \frac{1}{4}+\frac{2}{2}v_{i}^{-}\cdot \frac{1}{4}+\frac{h^{2}}{2}(\chi_{1}^{2}+\chi_{2}^{2}-\chi_{1}-\chi_{2}^{2}-\frac{3}{2})$
 $\frac{2+h^{2}}{2}v(x)=\frac{2}{h^{2}} V_{i}^{+}\cdot \frac{1}{4}+\frac{2}{2}v_{i}^{-}\cdot \frac{1}{4}+\frac{h^{2}}{2}(\chi_{1}^{2}+\chi_{2}^{2}-\chi_{1}-\chi_{2}^{2}-\frac{3}{2})$

$$\int_{-1}^{2} \frac{1}{h^{2}} \frac{1}{2} \frac{1}{1} \frac{1}{$$