



25 unanie falowe:





prend hossi

2'9 Jali

x - porjeja t - cras

marien & Ladania Ezeitan 5







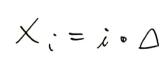
$$\frac{\partial^{2}}{\partial x^{2}} u(x_{1}t) \approx \frac{u((i+\mathbf{A})\Delta, t) - u((i+\mathbf{A})\Delta, t)}{\Delta}$$

gdz Ojet" mater

$$-4(\langle (+) \rangle)$$

$$\times_{i} = i \cdot \triangle$$

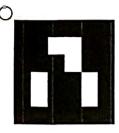
$$\times_{i} = i \cdot \triangle$$











$$\frac{u((i+1)\cdot Q,+)-u(i\cdot Q,+)}{\Delta} = \frac{u(i\cdot Q,+)-u((i-1)A,+)}{\Delta}$$



 \triangle

$$= \frac{u((i+n)-a,+)-2u(i-a,+)+u((i-n)a,+)}{\Delta^{2}}$$

$$\downarrow i-n \qquad i \qquad i+n$$

$$\downarrow i-n \qquad i+n$$

$$\downarrow i$$



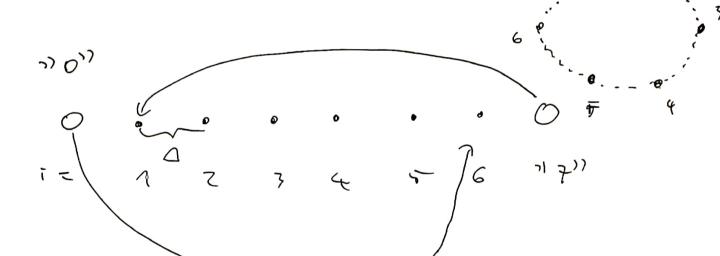








$$=\frac{1}{\Delta^{2}}u((i\cdot A)\cdot A,+)\left(\frac{2}{\Delta^{2}}u(i\cdot A,+)+\left(\frac{1}{\Delta^{2}}u((i-A)A,+)+\left(\frac{1}{\Delta^{2}}u((i-A)A,+)+\frac{1}{\Delta^{2}}u((i-A)A,+)\right)a}{2}\right)$$



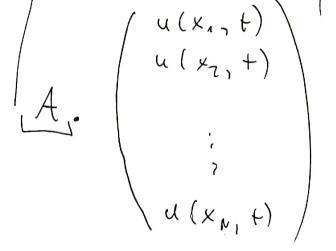








 $\frac{\partial^2 u(x,t)}{\partial t^2} = c^2$





$$A \cdot v = A \cdot v$$







$$A \cdot \cup_{\Lambda} = A_{\Lambda} \cdot \cup_{\Lambda}$$

$$\frac{1}{2^{2}} \left(\begin{array}{c} V_{2}(x_{1},t) \\ V_{2}(x_{1},t) \\ V_{3}(x_{2},t) \end{array} \right) = c^{2} A_{1} \cdot A_{1} \left(\begin{array}{c} V_{2}(x_{1},t) \\ V_{2}(x_{2},t) \\ \vdots \\ V_{N}(x_{N},t) \end{array} \right)$$

$$(u = v_1)$$

$$\left(v_1(x_1) + v_2(x_1) \right)$$



