Pacemorpun ne t-n;n) 1, cosx, conx, coszx, sinzx, ..., cosnx, cinnx 1) Tydapiia, was be evereul grynnym mosel nape Charapud -p-e: $(f, f_1) = \int f_1(x) \cdot f_2(x) dx$ f,+f2 (=> (f, f2)=0 Scaenx. 1dx = Scoenxdx = Sinnx = Ti $\pm \left[u = n \right]$ $\pm \left[u = n \right]$ $= \left[\frac{dn}{n} \right]$ $= \left[\frac{dn}{n} \right]$ Biginnxdx = (u=nx du=mdx)= $= \int_{-\infty}^{\infty} \sin u \, du = -\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \cos nx = -\int_{-\infty}^{\infty} \cos nx + \int_{-\infty}^{\infty} \cos nx = 0.$

counx sinkx dx = 0

$$\int_{0}^{\infty} \cos nx \cdot \cos kx \, dx = \frac{1}{2} \int_{0}^{\infty} \cos (n - k)x + \cos (n + k)x) \, dx =$$

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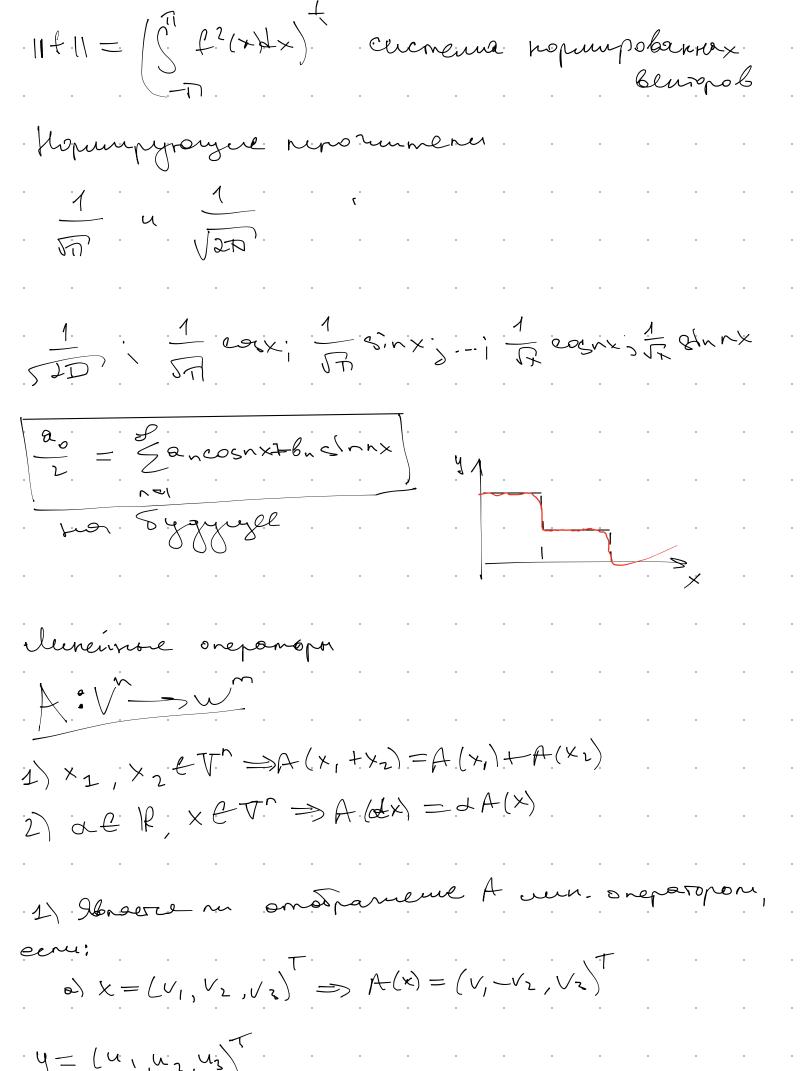
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1 Loanx 1 L Sinnx



$$x + y = (v, +u_1, v_1 + u_2, v_3 + u_4)$$

$$A(x + y) = (v, -v_2, v_3)^{2} + (u, -u_2, u_3)^{2} = (v, -v_2 + u_3, v_3 + u_3)^{2}$$

$$A(x) = A(v_1 - v_2, v_3)$$

$$A(x) = (A(v_1 - v_3), Av_1) = A(v_1 - v_2, v_3) = A(x)$$

$$A(x) = (v, v_1, v_3)^{2} + (v_2 - v_3)^{2}$$

$$A(x) = (v, (v_2 - v_3)^{2})$$

$$A(x + y) = (v, (u_2 + u_3)^{2})$$

$$A(x + y) = (v, +u_1, (v_2 + v_3 + u_3 + u_3)^{2})$$

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$$A(x + y) = (v, +u_1, (v_3 + u_3 + u_$$

$$Tyens \quad X = (x_1, x_2, ... x_n)$$

Many
$$\overline{y} = A(\overline{x})$$

$$\overline{y} = A(x,\overline{e}, + ... \times n\overline{e}_n) = x,A(\overline{e},) + ... + x \cdot A(\overline{e}_n)$$

$$\frac{2}{2} = \frac{2}{2} = \frac{2}$$

$$\frac{2}{y} = A(x) = \begin{pmatrix} a_{11} & \dots & a_{1n} \\ \vdots & \ddots & \vdots \\ \vdots & \ddots & \vdots \\ \vdots & \ddots & \vdots \\ \vdots & \ddots & \ddots \\$$

Jacara 3

A - meenique que nocusems XDZ, 8 It.3

- i) matringe nun onepatopa A.
- 2) havru 55 pag Bennopa = = (1, 2,3)