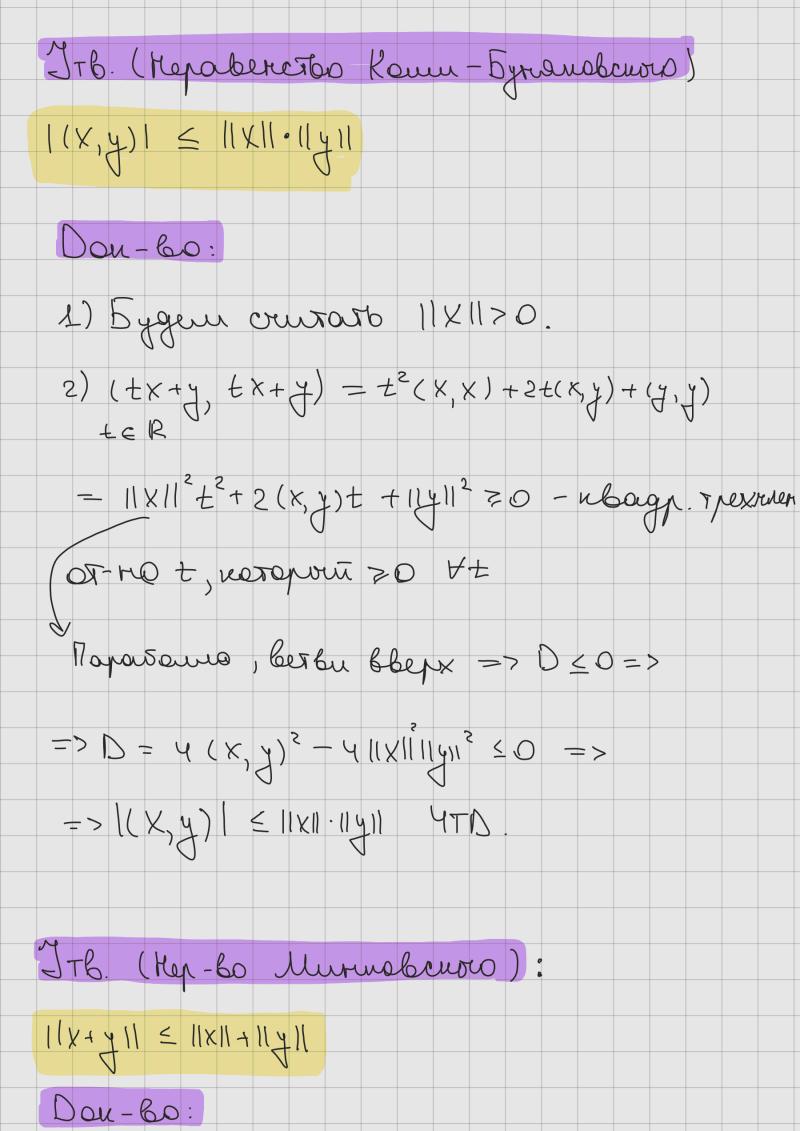
Orp. Cuaispron naybegernen b genterous unentron np-be E najorbaetas Benjectbernan apyri-se (x, y), enjegenerran que kongon napre KyEE u zgobnerbojsterjan ychobnam: 1) (K,X) 70; =0 <=> X=0 (x, y) = (y, x)3)  $(X_1 + X_2, Y) = (X_1, Y) + (X_2, Y)$  $(1)(\lambda x, y) = \lambda(x, y), \forall \lambda \in \mathbb{R}$ Onp. Deutoburenonce uneutral np-60 co cuandiprous naybegetueur rajorbaet ca elimpoliem n'est parettoin 176. Bo Bauan Ebungaban np-be maxto blecte trapmy 11×11=1(x,x)



1)  $|| \times + y ||^2 = (x + y, x + y) = || x ||^2 + 2(x, y) + || y ||^2 \le$ = ||X||2+5||X|| ||A|| + ||A||5 = (||X|)+(|A)|)5 => 11x+411 = 11x11+11411 YTD.

J-6. B ebungobon np-be que romun  $|| \times || = \sqrt{(x, x)} \rightarrow || \times + || \times + || \times - ||^2 = 2(|| \times ||^2 + || \times ||^2) -$ Toxquerbo nap-ua

Cyma bogposob guararament = Cymine Magnarob vopor

Trumper elm. np-6:

1)  $\mathbb{R}^{n}$ :  $(x,y) = \sum_{i=1}^{n} x_{i}y_{i}$ 2)  $\mathbb{C}L_{2}$ :  $(f,g) = \int_{0}^{\infty} f(t)g(t) dt$ 

 $||f||_{L_2} = \sqrt{(f, f)} = \sqrt{\int_a^b f(t) dt}$