

10) Sea 11 k, y) 11 = 1x1+1y1 Es una norma. Ya gue 11 (x,5) 1 = 1 x 1+ (y 1 > 0 s. (x,y) \$ = 0 1 1 (x,y) 1 = |x|+|y| =0 €> (x,y)= v. Adducts, $||\chi(\nu,y)|| = |\chi_x| + |\chi_y| = |\chi/(|x|+|y|)$ = 1) (11 (v , 5 / 11 4 ||(x1,x2)+(y1,y2)||=|x1+y1|+|x2+y2| $\leq |x_1| + |x_2| + |y_1| + |y_2|$ = $||(x_1, x_2)|| + ||y_1, y_2||$. Sean $x - (x_1, x_2)$, $y = (y_1, y_2)$ A = | | x+y| + | x-y| = | x1+y1 + | x2+y2 | + | x1-y1 - | x2-y2 | B= 2((|x||2+ ||y||3) = 2 ((|x1| + |x2|)2 + (|y1| + |y2|)2) Tonon de los rectores u = (1,0), v = (1,1)1 u+v11 + 1 | u-v11 = 1(2,1) | + 1 | b,-1) (1 = 4 $2(\|y\|^2 + \|y\|^2) = 2(1^2 + 2^2) = 2.5 = 10$ No umple le identided del parole logramo.

11) See V in ev. evelido o hernitico

Si xiy
$$\in$$
 V => $||x-y|| \ge ||x|| - ||y||$
 $||x|| - ||y|||^2 = ||x||^2 + ||y||^2 - 2||x|| ||y|| = ||x|| - ||y|| - ||x|| - ||y|| = ||x|| - ||y|| - ||x|| -$