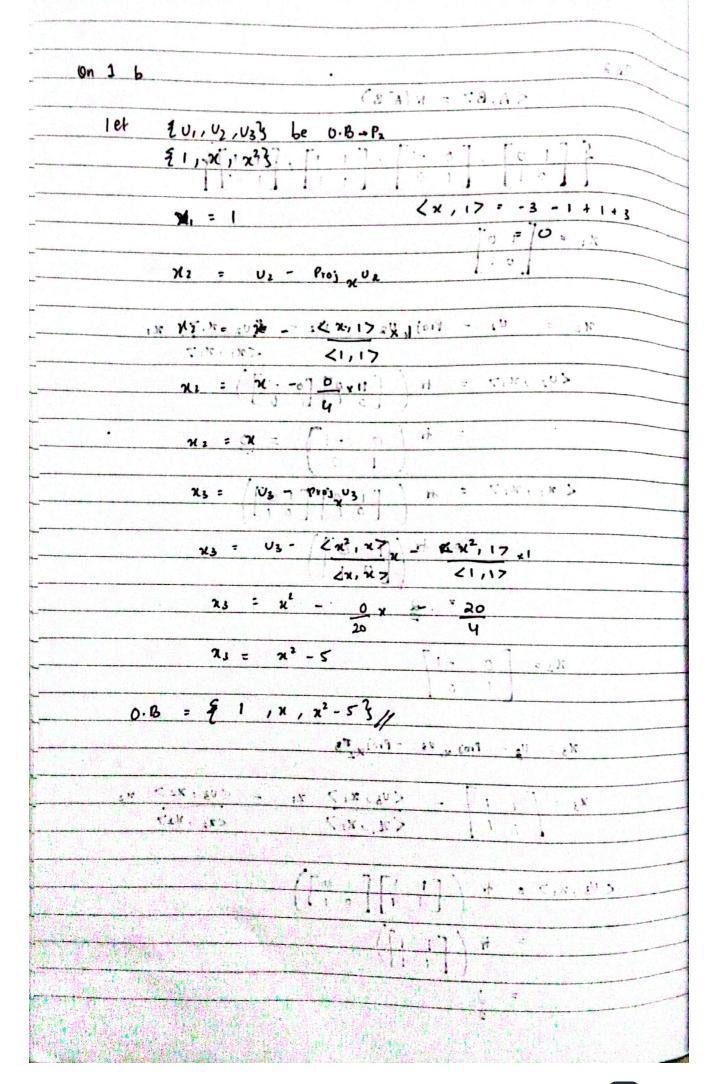
Syed Al	Haider Nagrit
Al -A	the trade to the same
a31-01	22
	(- 4 5 + 10 - 2
Qn 1.	3 : x + 36 + 31
رو,	7> = p(x6) q(x6) + p(x1) (1 (x1) + p(x2) q(x2) + p(x5) q(x3)
	10= -3 , x, = -1 , x, = 1 , x3 = 3 1 - A
<u>a)</u>	Find best approx. of p(x) = x2 onto P1 : span 21, x3
	B = Proj P = Proj P + Proj P
	$= \langle x^2, 1 \rangle_{x1} + \langle x^2, x \rangle_{x}$
	<1,17 <x,x7< td=""></x,x7<>
ζχ,	$(7) = (-5)^2 + (-1)^2 + 1^2 + 3^2$
	= 80
۷۱,۱	17 = 1 + 1+1 +1 = 4
< 2 ² 1	$(-3)^2(-3) + (-1)^2(-1) + 1 + 3^2(3)$
	= -27 -1 +1 +27
	6 0
< x ,x	2 = (-3)(-3) + (-1)(-1) + (11(1) + (3)(3)
	: 20
	= 20 + 0 : 5 4 20
The	best approx. of pla)=x2 onto Pi=span & 1,x3 is
- Mr	<u> </u>
	



Q02 < A, B> = + (A'B) LXUz - Proj x, Us - Proj 25 * ([;;][;;])

(U3, X1) = 0 SUMMER SU

