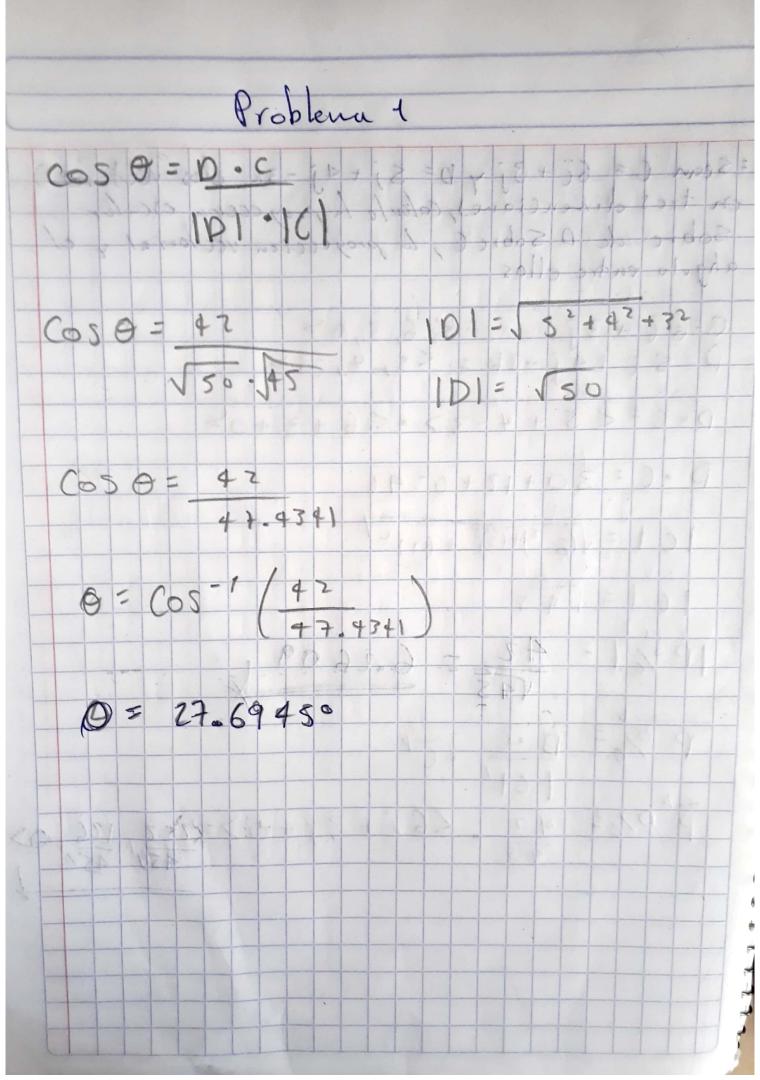
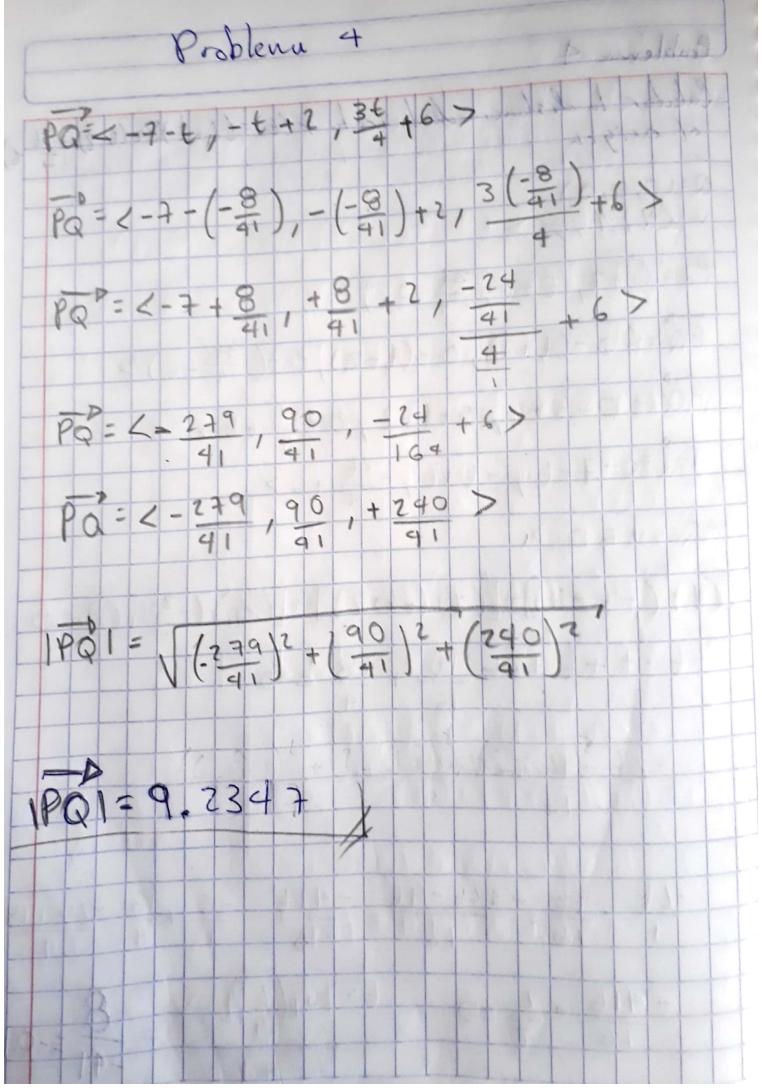
1= Sean C = 6 t 3 j y D = S j + 4 j - 3k clos vectores on tres dimenciones, calcula la projección escaler Sobre de D Sobre C, la projección vectorial y el abgulo entre ellos C=6 = +3 = + < 6, 3, 0 > D=5 = +4 = -3 = < 5, 4, -3 > D. C = < 5 + 4 - 3 > - < 6 + 3 + 0> D.C=30+12+0-42 101=162+(3) +(0)4 6.2609 +0>= <252 126 0



Problema 2 2= Calcule el volumen del paralele pipedo con aristes p(3,0,1), Q(-1,2,5), P(5,1,-1) y 5 (0,4,2) PQ = (-1-3), (2+0), (5+7) = 4-14, 2,4> PP = (5-3), (7-9), (-1-1) = <2, 1, -2> PS=(0-3),(4+0),(2-1)=<-3,4,1> V= (PRXPS) - PQ 1 PPXPS 2 1-2 -3 4-1 [(1)(1)-(4)(-2)]i-[(1)(1)-(-3)(-2)]k = 91+41+1110 = <= <9,4,11><-4,2,4> (9)(-4)+(4)(2)+(11)(4) -36+18+44=16U3 -36+8+49=16U3

Problema 3 Dado el vector de posicion de una particula en novinierto grofique una porcion do la curva y el vector transente en el valor indiredo de to. r (+)= (cos 3 +) [+(scu 3+) [+= 7]/3) Y'(1/3)=<-3 Sen(-1/3), 3 cos (1/3)= < 2.59,1.5) VI (17/6= <-3 sen (-1/6), 3 cos(-1/6) = <1.5,759) ('(0) = <-3 sen(0), 3cos(6)>= < 6.00, 3> t. 1 r (+) T/3 <2.59, 1.5> -T/6 <1.5, 2.59> 1/3 62.59, 1.5>

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0,0	3/4>														
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79 14 1)	0 -	-(36		6)	>			
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1-4	- 2)	1+ [(1)	(+ 2	17	+ [(3)		1	3£	. (B	- 0	
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2+	96	-3			£ =	- 4	1+		-	2	+!	8 -	-20	STREET, SQUARE,	8
		2 =	0	6	-	9 1	16	12	1	1			8	7	1
	19th 10,0,1, 1+7, 1-2+ 1-2+	(-1) (-1)	(-1) (-1)	(-1), (-1) , (-1)	(-1), (-1) , (-1)	(-1), (-1) , (-1)	(-1), (-1) , (-1)	(-1), (-1) , (-1)	(-1, -1) (-1,	(0,0) (1,3) ((-1), (-1) , (-1)	$\begin{array}{c} (-1) & (-$	$\begin{array}{c} 7347 \\ 70,6) \\ $	$\begin{array}{c} (1,3) \\ (1,3) \\ (2,0) \\ (3,1) \\ (4)$	(2,0,0) $(2,1)$ $(3,1)$ $(4+7)$ $(4$



6 = Determire la eccación del plano que contrene los puntos P(1,0,-1), a(2,4,5) y P(3,1,7) PQ=(2-7),(4-0),(5+1)=21,4,6> PR=(3-7), (1-0), (7+1)=<2, 1,87 PQ XPP= 14 61-12811+21 N-= [32-6] 1- [8-12] -1 [1-8 N= 26 + 45 -7 K PT= (X0, Y12) - (1,0,-1) = < x -1, y -0, 2+1> PT - N = (x - 1)(26) + (y - 6)(4) + (7 1)(-7) = 026x+4y-7z=33 26x+4y-7z=33