## Proctice Exem 1

19 (2),0,0> - \$\tilde{\lambda}\cdo,0,0> (2),0> - \$\tilde{\lambda}\cdo,0

<11,17> 60 + 8A + AD - 60

OE : < 1/2, 1, 0>

ER = <0,0,112>

OE+ER- <112, 1, 112> OR

P) 00.04 - <111,1><115> - \frac{5}{65} + 15 + \frac{5}{65} + 50 \frac{5}{12} \cdot \frac{

1001-1312-113

10K1 - 1614 + 41, 614 - 1615 - 518

→ 412: 12 118 cone => Car @ : 41 4.118 5118

P2 7(4) (3cost, 3sint, +>

0. co)-1 (2/18/4) × 14.470

V(1) - < - 3511, 3001, 1)

Speed - 17(1)1 - 19(5in2+100)+1 - 110

b) [ 3 2 ] [ x ] - 2 ]

C) A. [13 c] det A. 1(1)-3(1)+c(2)+0

det A: 2 +0

"> unique solution A' II

-0 C - 1 C-3 no sal. a co sol.

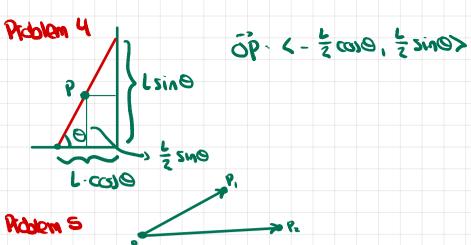
M. [3 0-1] HX-0 [1 3 1][X] [0]

- Z -1 -2 5 -2 -4 -4

cocase us south and at to that how (s.1.1x) c.

 $|\hat{1}|\hat{3}|\hat{h}|\hat{1}|=\hat{1}(-3)-\hat{3}(-1-2)+\hat{h}(-6)+\langle -3,3,-6\rangle$ 

<->1,3,6><1,1,0)=0 es cell => <-3,3,6> is = southing.



Ridden S

A. 1 (P.P. x P.P.) - 1 JIHH4 - 16

P) y - <1'1'5> X+1+55-3

c) line packed to v. <1,1,1) pessing shough (-1,0,0)

Dozoustic 6d: <-1'0'0>+1<1'1'1> - <-1+1'+'+>

<0,1,1> interection

Roblem 6

= 7R.R'

Mon.: JR.R. R'R. R.R': ZR.R'

b) IRI - k = dR.R d IBI' = d (h') = 0 => R.R'=0 => R. N'=0

c) IRI.h, R.V.O

R'V + RA - 0

1V1 + RA . O = RA - 1V12