ay (a) (i) 4,= i+2j-k, 4= 2i-j+8k.

If Q is parallel to O2 them u = dur for some

scales ), is that

1+22-k= x(21-1+8k)

w that 2x=1, ->=2, 8x=-1, impossible

Hene P, is not parallel to Pz.

(ii)  $u_{k}u_{k} = \frac{1}{2} \cdot \frac{1}{8} \cdot \frac{1}{2} \cdot \frac{1}{2$ 

so we may take u= 3:-2j-k:- the liverior of L

Putting 200, the equations for Q and Q became

7-1-3 - 3

9'v:- > 5 n = 5 , 2 = 1 , 2 = 1 , 2 = 1 , 2 = 1 (1/10) il

a point and. Here a passerie recht equation for

[= ;+]++(3;-L]-K).

Q1/ (0) ("ii)	•				
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Ry (a) autbr = cutdr => (author). u = (cutdo). u and (author). 5 = (cutds). 5 =) a | u| + b & ru = c | u| + d v - u and and the card to dist an 1412 = 1412 and 61412 ad 1416 (Land und = 1) and bad (sime 121 /112 249=840=1 ptg = 1+1 2-1

02/cb) (cmt.) AP = AM + MP = XAB + VMB = x b + q (MA + A3) = 40+9(-46+8) = d(1-q)2+91 and who AP = AN + NP = 840 + 1 NB = 8 & + S (NA + AB) = x1+3(=x9+1) = 86 + 8(1-3) d. x(1-9)=5 and 9=8(1-1) B, (4) 2= 8(1- x (1-9)) = 8-8x+8x4, Victoria de la Companya del Companya de la Companya del Companya de la Companya d med 1 = ( = t) 1-84-8+44 1-8

Let (C-NI) = | 1-N | = | 1 Continue (1000) 2 (1-x) | 2-x | | = (1-x) (1-x) -2] (1-x) (n-3x +2-2) = (1-x) x (x-3) (b) eigenvolves one 1001 it dat (C-XI), that 11, 221,0,3, (c) eigentles + c' ent 1-1,020, 36. Remen: It CIEXI Men crecker chreye d) domentie pagement to a (1-x)x(x-3)