$$Q(x) = c - j + 2k$$
,  $C = 2c - j - k$ 

(e) 
$$(3u-25) \times (n+27) = 12(n \times 2) - 5(2 \times n) = 12(n \times 7)$$

$$2x-y-t=4+1+1=6$$



R2 = Q1/2, BD = 6-0, do

1 AC 12 + 1 BB 12 = [0+6 12 + 16-012

= (212). (212) + (6-6). (6-6)

= 212+121/2 + 4.4 + 4.4 - 7/2.2 + 2.1

- 2/8/2 2/8/2

= hunt speek that siles as required

(ii) & passes through B(0,0,0) and c(-1,0,2)

and A = (1,2,-1).

(a) I has direction vactor BC = -i+2k

n his rector equalin [1 = +(-1+hk)]

b) the power equations



Q2/ (i) (b) (cmt.)

10 N=(-+,0,2+) & +FIR

(c) Vont AR = (t-1): -2; + (2++1) & b

be perpendicular to el so AN. BC =0,

ie. ((-+1)!-1]+(2++1)k). (~!+2k)=0,

12. ++1+++2=0,

· 2 · 5 + = -3 / + = -3 /

N = (3/5,0,-6/5).

with the state of the state of

= \( \( \tau + 100 + 12 \) \\ \( \tau \) \\

7 79 3



$\frac{Q4}{(1)} (unt.)$ $\frac{C}{(1 + 0 + 3 + 3 + 2 + 9)} = \frac{C}{(1 + 2 + 3 + 2 + 9)} = \frac{C}$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
(x,y) =   (x-1) +   (x
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
(x,y,2,w) = (-9-3-3t, s, 11+2t + 1) $(x,y,2,w) = (-9-3-3t, s, 11+2t + 1)$ $(x,y,3,w) = (-9-3-3t, s, 11+2t$
(x,y,2,w) = (-9-3-3t) + 11+2t + 1 + 11 $(x,y,2,w) = (-9-3-3t) + 11+2t + 1 + 11$ $(x,y,2,w) = (-9-3-3t) + 11+2t + 11+2t + 11$ $(x,y,2,w) = (-9-3-3t) + 11+2t + 11+$
11 15 -1 4   15 -1 4   1 -1 6
C/11 [100]
10/11/11/100 11/11/100
12100000000000
112/00/1/00/1-10/
The suppose of the su
[1012-10] [100] 3-1-1]
C 0 1 0 -1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1001/-101/001/-101
CIVIC 13 - CT
to the test of the



