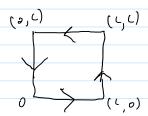
Q4,5

(e) E = (- >24, >24, 0) C square in (x,1) plane with vatiles at (0,0), (1,0), (1,1), (0,1)

Watto find | E.dr. Shit Cinto line segments

(2, 1) (



J. E. 9 = JE.9 C + JE.9 C + JE.9 C

= 0 + \ (-126, 1 +). (0,1) dt + \ [-(1-472, (1-4)12).(-1,0) dt + 0 = J c t)+ + J c c - t)2 L d+

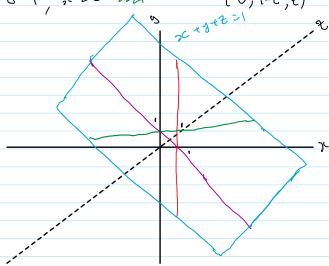
= () tr + 12 - 2 Lt + tr dt = 1 2t - 21+ + 12 dt

= ((3 3 - (3 + (5 - 0 * 0 ~ 0)

= 2= (4

5a) (: x e j e b z | y z 0 mm (: 2 c + y - b z | & z 0 mm () 1 x e y e b z | 2 c 20 mm

(t,0,1-t) (c[0,1) (1-6,t,0) (E[0,1] (0,1-t,t) t (E,0,1]



b) E(C) = (x2+, xx, 22)