**تمارين احتمالات 3**

1- let the J.P.M.F

P(x,y)= c if x=1,2,3,4,5 , y=1,2,3,4

Find c & x,y

2-let we have f(x,y)= x+y 0<x<1 , 0<y<1

Show that f(x,y) is J.P.D.F

3- let f(x,y)= (x+y)/3 0<x<1,0<y<2

Show that f(x,y) is J.p.d.f ,find E xy ,E(x/y=-1)

4- let

|  |  |  |  |
| --- | --- | --- | --- |
| (1,1) | 0,1)) | (0,0) | (x,y) |
| 1/4 | 1/2 | 1/4 | P(x,y) |

Find cov(x,y)