3	Multiposet Stateted Andrew
3	Multivariate Statistical Analysis Assignment 2
3	HSSIG MINEN
3	1. Three nandom variables X, Y, Z have a joint pdf
3	
3	$f(x,y,z) = \begin{cases} kxy3^2 & 0 < x, y < 1, 0 < 2 < 3 \end{cases}$
3	
3	a) Find K and E(X)
3	b) Examine the independence of nots.
3	c) Find the manginal pag of x and Z.
3	d) Find the conditional distribution of X/Y=1/2 AZ=1
3	e) theat the covariance of X and Z
3	0
3	2. Suppose that X1, X2, X3 are independent or ors with
3	unit rariance. Let 7: X1+X2+X3; Y2=X1-X2 and
3	73: X1-X3. Find the correlation and covariance
3	matrices of YT= [Y, Y2 Y3]
3	
	3. With MT = [10 4 1] and N B: [2 1 0] .
3	12-13
3	and ii) B: 11 Find the distribution of.
3	
3	X: µ + BU. Verify the nanks of the nesulting
-	covariance matrices
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