KFUPM	Term (1112)	NameSerial#	<del></del>
		Section # 6	
MATH 201	Quiz # 5(a)	Marks:	/ <b>%</b>
Time: 20 Mi	nutes		

1) Use polar coordinates to find the area enclosed by  $r = \cos 3\theta$ .

2) Set up a triple integral using dx dy dz as order of integration to find volume of the solid bounded by the graph of equations  $y = 2 - z^2$ ,  $y = z^2$ , x + z = 5, and x = 0.

Time: 20 Min	nutes		
MATH 201	Quiz # 5(b)	ID#Marks:	/8
KFUPM	Term (112)	NameSection # 6	<del> </del>

1) Use polar coordinates to evaluate  $\int_{-1}^{1} \int_{0}^{\sqrt{1-x^2}} (x^2 + y^2)^{3/2} dy dx$ 

2) Set up a triple integral using dz dy dx as order of integration to find volume of the solid bounded by the surface  $y = x^2$  and planes y + z = 9 and z = 0.