KFUPM	Term (142)	Name	Serial#	_
MATH 201	Quiz # 5(a)	ID#	Section 9	
Time: 20 Mi	nutes		Marks: /8	3

1) Evaluate $\int_0^1 \int_0^{\sqrt{1-x^2}} \frac{1}{x^2+y^2+1} dy dx$.

2) Use triple integral to find volume of the solid bounded by cylinders $x^2 + y^2 = 1$ and $x^2 + z^2 = 1$.

1) Convert $\int_1^2 \int_0^y \frac{1}{\sqrt{x^2 + y^2}} dx dy$ in polar coordinates.

2) Evaluate $\iint xydv$ where s is bounded by parabolic cylinders $x = y^2$ and $y = x^2$ and plane z = 0 and z = x + y.