Math 201-111	Quiz 5	(B)
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Q.1: Evaluate the double integral
$$\int_{D} x \sqrt{y^2 - x^2} dA$$
,

where
$$D=\{(x,y)\mid 0\leq y\leq 1, 0\leq x\leq y\}$$

Q.2: Use double integrals to find volume of a solid under the paraboloid $z = 3x^2 + y^2$ and above the region bounded by y = x and $x = y^2 - y$.

Q.3: Evaluate the double integral $\int \int_R 5e^{-x^2-y^2}dA$, where R is the region bounded by the the semi circle $x=\sqrt{9-y^2}$ and the y-axis.

Q.4: Use double integrals to find volume of a solid under the paraboloid $z = 27 - 3x^2 - 3y^2$ and above the xy - plane.