

Math 201-111

Quiz 2

(A)

Name:.....ID#:.....Sec:.....Ser:.....

Q.1: Find area inside $r = 1$ and outside $r = 1 - \sin(\theta)$.

Q.2: Find center and radius of the sphere $x^2 + y^2 + z^2 - 3x - 5y + z = 5$.

Q.3: Find scalar and vector projections of $\mathbf{a} = \langle -2, 1, 2 \rangle$ in the direction of $\mathbf{b} = \langle 1, 3, -2 \rangle$.