

Math 201 Quiz 3

(B)

Name:.....Serial#:.....Sec #.....

Q.1: Describe the traces of the quadratic surface $4x^2 + 25y^2 + z^2 = 100$ in the planes $x = k$, $y = k$, and $z = k$. Write the interval for each k .

Q.2: Change the spherical coordinates $\left(8, \frac{\pi}{3}, \frac{\pi}{4}\right)$ to cylindrical coordinates.

Q.2: Identify the surface given by $\rho^2 (4 \sin^2 (\phi) + 9 \cos^2 (\phi)) = 36$.