

Math 201 Quiz 1

(B)

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

Q.1: Eliminate the parameter t from the parametric equations $x = \cot(t)$, $y = \csc^2(t)$ to find a cartesian equation and sketch its graph.

Q.2: Find $\frac{dy}{dx}$ for the parametric equations given in Question 1. Also find equation of the tangent line to the curve at $t = \frac{\pi}{4}$.

Q.3: Sketch the graph of the polar equation $r = 1 + \cos(\theta)$.