

King Fahd University of Petroleum and Minerals
Department of Math & Stat
Math 201 Section # 22 (111)
Quiz 1 (a)

Time: 20 minutes

Marks: _____/9

Name: _____

ID #: _____ Serial #: _____

1. For the parametric curve $x = t^2$, $y = t^3 - 3t$, find $\frac{d^2y}{dx^2}$. Where is this curve concave upward?

2. Find length of the curve $r = 2 - 2\cos c$.

3. Set up integral (do not evaluate it) to find area of the surface generated by revolving $x = r \cos t$, $y = r \sin t$ ($0 \leq t \leq \pi$) about the x -axis.

