

Math 201-163

Quiz 1

(A)

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

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**Q.1:** Sketch the graph of the parametric equations  $x = t^2 - 3$ ,  $y = 4 - 3t$  and mark the direction in which the curve is traced for  $-3 \leq t \leq 3$ . Find equation of tangent line to the curve at  $t = -1$ . Also eliminate the parameter  $t$  to find corresponding cartesian equation.

$t$	$x$	$y$

**Q.2:** Find the exact length of the curve  $x = 3 + 3t^2$ ,  $y = 1 + 2t^3$  for  $0 \leq t \leq 1$