ING FAHD UNIVERSITY OF PETROLEUM AND MINERALS DEPARTMENT OF MATHEMATICS & STATISTICS MATH 201-05

Quiz # 1 March 3, 2010

NAME:	ID#:
SHOW ALL YOUR WORK	
1. (3points) Which points on $x = 0$	$=3t+t^2, y=t^3-12$ have tangents with slope 3?
2. (3points) Find $\frac{dy}{dy}$ and $\frac{d^2y}{dy}$ at t	he point $(1,3)$ on the curve $x = e^{-t}, y = 3\cos t$.
dx dx^2	1 () 3
3. (4points) Eleminate t and ske	etch the resulting curve for $x = 2\cos t, y = \sin t, -\frac{\pi}{2} < 1$
$t < \frac{\pi}{2}$. Indicate with an arrow t	he direction in which the curve is traced as t increases