ING FAHD UNIVERSITY OF PETROLEUM AND MINERALS DEPARTMENT OF MATHEMATICS & STATISTICS MATH 201-04

Quiz # 1 March 3, 2010

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