King Fahd University of Petroleum and Minerals

	MATH 201	QUIZ #1	Term 152		Dr. A. Khalfallah	
Name:				section:	ID:	
Q1. Conve	ert the curve $x =$	$\tan^2 \theta, y = -$	sec θ , $-\frac{\pi}{2}$ <	$< \theta < \frac{\pi}{2}$ into Ca	artesian equations.	

Sketch the curve with the direction of the motion.

Q2 Find equations of the tangents to the curve $x = 3t^2 + 1$, $y = 2t^3 + 1$ that pass through the point (4,3).

Q3 Find the area enclosed by the x-axis and by the curve $x = 1 + \exp(t)$, $y = t - t^2$.