Math 101
Quiz 4
March 3 , 2011

Name : _____

ID# : _____

Department : _____

Section : _____

QUESTION: A particle moves along a parabola $y = x^2$ in the first quadrant in such a way that its x-coordinate (measured in meters) increases at a rate of 10 m/sec. How fast is the angle of inclination θ of the line joining the particle to the origin changing when $x = 3$ m?

SOLUTION: