

King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math-201 Semester-121 QUIZ I

NAME:

S.No.

ID:

Maximum Marks: 10

Section:07

Time Allowed: 20 minutes

(1) Sketch the graph of the parametric equations $x = t + 2, y = t^3 - 2t$ and mark the direction in which the curve is defined for $-2 \leq t \leq 2$. Also, eliminate the parameter t to find corresponding cartesian equation.

(2) Find the equation(s) of the tangent(s) to the curve $x = t^2, y = t^3 - 3t$ that pass through the point $(3, 0)$.