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:18 Time Allowed: 20 minutes

- (1) Sketch the graph of the parametric equations $y = t + 2, x = t^3 2t$ and mark the direction in which the curve is defined for $-2 \le t \le 2$. Also, eliminate the parameter t to find corresponding cartesian equation.
- (2) Find the equation(s) of the tangent(s) to the curve $x = t^5 4t^3$, $y = t^2$ that pass through the point (0, 4).

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