

King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math-201 Semester-082 QUIZ I

NAME:

S.No.

ID:

Maximum Marks: 10

Section:

Time Allowed: 15 minutes

(1) Find an equation of the tangent line to the parametric curve given by $x = e^t, y = (t - 1)^2$ at $(1,1)$.

(2) Find the area of the curve $x = a\cos^3\theta, y = a\sin^3\theta, 0 \leq \theta \leq \frac{\pi}{2}$.