King Fahd University of Petroleum and Minerals Department of Mathematics and Statistics Math-201 Semester-101 QUIZ I

NAME:

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S.No. ID:

Maximum Marks: 15 Section:10 Time Allowed: 25 minutes

(1) Find the length of the polar curve $x = e^t + e^{-t}$; y = 5 - 2t; $0 \le t \le 3$.

(1) Find the slope of tangent line to the curve $r = 1 + \cos\theta$ at $\theta = \frac{\pi}{6}$. (3) sketch the graph of the parametric equations $x = 4sint, y = -5sint, -\pi \le t \le \frac{\pi}{2}$ and mark the direction.