

King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math-201 Semester-161 QUIZ I

NAME:

S.No.

ID:

Maximum Marks: 8

Section:23

Time Allowed: 20 minutes

(1) Identify and sketch the curve $C : x = \sec(t), y = \tan(t), -\frac{\pi}{2} < t < \frac{\pi}{2}$ and indicate with an arrow the direction in which the curve is traced as the parameter increases.

(2) Find the length of the curve $x = \ln(\sec(t) + \tan(t)) - \sin(t), y = \cos(t), 0 \leq t \leq \frac{\pi}{3}$.