

King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math-201 Semester-131 QUIZ I

NAME:

S.No.

ID:

Maximum Marks: 10

Section:11

Time Allowed: 20 minutes

(1) Consider the parametric equations $x = 4 \sin t$, $y = -5 \cos t$. Eliminate the parameter t to find a cartesian equation. Sketch the curve and mark the direction in which the curve is traced for $-\pi \leq t \leq \frac{\pi}{2}$.

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