KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
DEPARTMENT OF MATHEMATICS AND STATISTICS
MATH 201 - QUIZ 1

Name:
Student ID #:

Question 1. Identify the parametric curve $x = \sec t$ $y = \tan t$ by eliminating the parameter.

Question 2. Find the surface area of the solid obtained by rotating the parametric curve $x = \ln t$, $y = \sqrt{t+1}$, $1 \leq t \leq 2$ with respect to the x-axis.

Question 3. Find the polar coordinates (r, θ) with $r < 0$ and $-2\pi \leq \theta < 0$ of the point $P(-1, -\sqrt{3})$ given in cartesian coordinates.

Your Solution.