

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

Name:

Student ID #:

Question 1. Eliminate the parameter to find a cartesian equation of the parametric curve

$$x = 2 - \tan t \quad y = 2 + \cos t$$

Question 2. Find the equation of the tangent line to the parametric curve

$$x = 2^t \quad y = t - t^2,$$

at the point $(1, 0)$.

Question 3. Find another expression of the point $(1, 4\pi/3)$ given in polar coordinates in terms of (r, θ) where $r < 0$ and $\theta < 0$.

Your Solution.