KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
DEPARTMENT OF MATHEMATICS AND STATISTICS
MATH 201 - QUIZ 2

Name:
Student ID #:

Question 1. Find the slope of the tangent line to the polar curve $r\theta = 1$ at $\theta = \pi/2$.

Question 2. Describe the region consisting of points inside the sphere with radius 3 and center $(-1, 2, -2)$ and above the xy-plane using two inequalities.

Question 3. Find the area that lies inside the curve $r = 1 + \sin\theta$ and outside the curve $r = 1 - \sin\theta$.

Your Solution.