MthU242 Sci. & Engin. Calculus II

Quiz #11 Professor Gilmore

20 Minutes April 5, 2007

Name:_____.

Show All Your Work

1. Find the distance between the two points P = (3, -2, 1) and Q = (-1, 4, -2) in 3-space.

2. a. Write the equation for the plane which is parallel to the y-z plane and contains the point P = (3, 2, 1).

3. A plane is flying at an airspeed of 350 miles per hour in a direction 40 degrees north of east. A 40 mile per hour wind is blowing from a direction 15 degrees west of north. Calculate the groundspeed and the true course of the plane.

Name:_____.