# Math 2513 – Summer 2024

# Quiz 1

Name: Student ID:

1 – What is the definition of a line? (1)

2 – What are 2 of the 3 possible equations that describe a plane? (2)

3 – Given the line f(x,y) = 3x -2y, does the point (0, 4, 5) sit on it? What about the point (1, 2, -1)? (2)

4 – We know that the point (2, -4, 5) sits on the plane that has the normal vector [2,2,2]. What are the three possible equations for describing the plane? (3)

5 – How far away is the point (3, -4, 2) from the plane described by the equation (x+2) + (y-3) + z = 12? (2)

6 – Sketch the level curves for the surface 2x2 – 3y + 2y2 – z = 1. (4)