## Math 2513 – Summer 2024

## Quiz 1

Name:		Student ID:
1 – What is the definition of a	a line? (1)	
2 – What are 2 of the 3 possil	ple equations that describe a plan	ne? (2)
3 - Given the line f(x,y) = 3x - 2	2y, does the point (0, 4, 5) sit on it'	? What about the point (1, 2, -1)? (2)
	2, -4, 5) sits on the plane that has t for describing the plane? (3)	the normal vector [2,2,2]. What are

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  $2x^2 - 3y + 2y^2 - z = 1$ . (4)