Math 201	Quiz # 3(a)	Time: 20 minutes		Date: 1-11-2018
Name	ID #	Sr #	Sec.	Marks(15):-

Q 1. (i) Find an equation of a line L passing through the point P(2,2,2) and parallel to the vector (1, -1, 2). (ii) Also find the distance from the point Q(1,1,5) to the line L obtained in Part(i).

Q2. Graph $f(x, y) = 100 - x^2 - y^2$. Also plot the level curve f(x, y) = 51.

Math 201	Quiz # 3(b)	Time: 20 minutes		Date: 1-11-2018		
Name	ID #	Sr #	Sec. 09	Marks(15):-		

Q 1. (i) Find an equation of the plane P through A(0,0,1), B(2,0,0) and C(0,3,0). (ii) Also find the distance from Q(1,1,3) to the plane P obtained in Part(i).

Q2. Find an equation of level curve of $f(x, y) = \sqrt{x + y^2 - 3}$ that passes through the point P(3, -1). Also sketch this level curve.

Math 201	Quiz # 3(c) Tim	ne: 20 minutes		Date: 1-11-2018
Name	II)#	Sr #	Sec. 13	Marks(15):-
Q 1. Let L1: $x = y - 1 = \frac{z-2}{3}$ and L2: $\frac{x-2}{2} = \frac{y-3}{-2} = \frac{z}{7}$. Determine whether L1 and L2 are					

skew or not.

Q2. Find an equation of level curve of $f(x, y) = 16 - x^2 - y^2$ that passes through the point $P(2\sqrt{2}, \sqrt{2})$. Also sketch this level curve.

Math 201	Quiz # 3(d)	Time: 20 minutes		Date: 1-11-2018
Name	ID #	Sr #	Sec. 13	Marks(15):-

Q 1. Find parametric equation for the line of intersection of the planes P1: x + y + z = 1 and P2: x + 2y + 2z = 1. Also find the angle between P1 and P2.

Q2. Find and sketch the domain of $f(x, y) = \cos^{-1}(y - x^2)$.