BAHRIA UNIVERSITY, (Karachi Campus)

Department of Software Engineering
Quiz 1 - Fall 2022

COURSE TITLE:	**Calculus and Analytical Geometry**	COURSE CODE:	**GSC-110**
Class:	**BSE-I (B)**	Shift:	**Morning**
Course Instructor:	**MR. DANIYAL UR REHMAN**	Time Allowed:	**20 min**
Date:	**21-10-2022**	Max. Marks:	**10 Marks**

[CLO1: 5 Marks]

Question No. 1 Find solution of each inequality in interval notation

i) $|x - 2| \leq 4$ Answer: _____

ii) $0 < x \leq 2$ Answer: _____

iii) $-\frac{p}{5} > \frac{2}{5}$ Answer: _____

iv) $x^2 - 16 > 0$ Answer: _____

v) all real numbers greater than or equal to 13 Answer: _____

Question No. 2 Identify the True false from the following

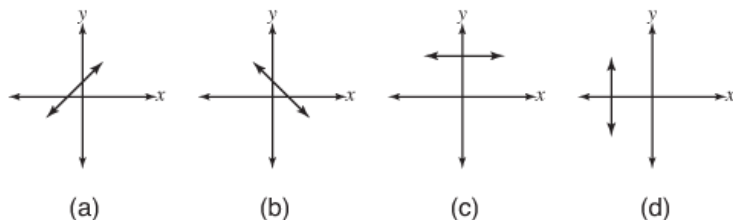**i)** $2x + 3y = 5$ is the equation of line Passes through $(-1,3)$ with slope -2 _____

ii) $y = -3$ is the vertical line passes through $(-1.-3)$ _____

iii) The horizontal line $y = -5$ is passing through $(-5,4)$_____

iv) If a, b and c is any real number and $c > 0$ than $a < b \to ac < bc$_____

Question No. 3

Describe the slops of each line

(a) (b) (c) (d)

a) _____

b) _____

c) _____

d) _____

Question No. 4 Find the domain of the following functions

i) $f(x) = \sqrt{x + 2}$ ii) $g(x) = \frac{1}{\sqrt{x}}$