

BAHRIA UNIVERSITY, (Karachi **Campus**)

Department of Software Engineering **Quiz 2 - Fall 2022**

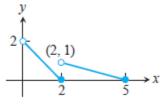
COURSE TITLE: Calculus and Analytical Geometry COURSE CODE: GSC-110

Class: BSE-I (B) Shift: **Morning**

Course Instructor: MR. DANIYAL UR REHMAN Time Allowed: 20 min Date: 11-11-2022 Max. Marks: 10 Marks

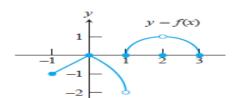
[CLO2: 2.5 Marks]

Question No. 1 Express the formula for piecewise function f(x) from the given figure



Question No. 2 a) Give the reason for discontinuity of function $f(x) = \frac{x^2 - 16}{x - 4}$ at point x = 4

b) Given that the following statements about the function y = f(x) graphed here, identify true false



- $\lim_{x \to 2} f(x) \text{ does not exist } \underline{\qquad}$ $\lim_{x \to 1} f(x) \text{ does not exist } \underline{\qquad}$ $f(-1) = \text{ undefined } \underline{\qquad}$
- iii.
- f(3) = 0

Question No. 3 Find the equation of the tangent to the curve $y = 3x + \frac{2}{x}$ at the point (1, -3)