Quiz -1, MAT 120 (Calculus I), Fall 2020, Section -4, Date: 07/11/2020

Name: Student ID:

Marks: 15 Time: 15 min

1. Sketch the graph of the function 
$$f(x) = \begin{cases} 2, & \text{if } x \le -2 \\ -\sqrt{4 - x^2}, & \text{if } -2 < x < 2 \\ 2 - x, & \text{if } x \ge 2 \end{cases}$$

and write down the domain and range. Discuss the continuity of f(x) at x = -2 and x = 2.