Math 135, Calculus 1, Fall 2020

Weekly Quiz 10-07

Show all work: clearly indicate your answer and the reasoning used to arrive at the answer. Unsupported answers may not receive full credit.

Exercise 1. Let f(x) be the function

$$f(x) = \begin{cases} 2x - 1 & \text{if } x < -1 \\ cx & \text{if } -1 \le x \le 2 \\ |x - 2| & \text{if } x > 2. \end{cases}$$

(a) Find the value of *c* that makes f(x) left-continuous.

(b) Find the value of *c* that makes f(x) right-continuous.

Exercise 2. Consider the functions g(x) and h(x) with the following graphs:

