NT	Quiz 3	MATH 200, Section 1
Name:		February 12, 2021
Directions: Closed book, closed notes, no calculators.	Ι	Each problem is 10 points, for a total of 20 points.
By submitting this quiz you affirm that you agree with	this statement:	On my honor, I have neither given nor received
unauthorized aid on this assignment, and I pledge that I am in compliance with the VCU Honor System.		

- 1. Answer the following questions involving the two functions graphed below.
 - (a) $\lim_{x \to 1} f(g(x)) =$
 - (b) $\lim_{x \to 1} f(x)g(x) =$
 - (c) $\lim_{x \to 1} \cos\left(f(x)g(x)\right) =$
 - (d) $\lim_{x \to 2} \frac{\sin(f(x))}{\pi f(x)} =$
 - (e) At which x (if any) is g(x) discontinuous?
- 2. Sketch the graph of **one** function f that meets **all** of the following criteria.
 - (a) The domain of f is the interval [-5, 5].
 - (b) f is continuous at all x in [-5, 5]except at x = -1 and x = 3.
 - (c) $\lim_{x \to -1^+} f(x) = 1$
 - (d) $\lim_{x \to -1^{-}} f(x) = 2$
 - (e) $\lim_{x \to 3} f(x) = -1$





