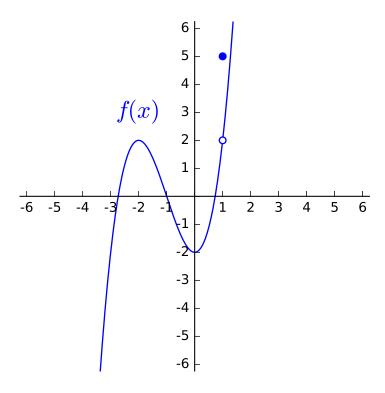
All work on this lab should be original effort from you. Although I encourage collaboration on this assignment, the work performed herein should be your own. Technology allowed on this lab includes: Desmos (https://www.desmos.com/calculator) and an approved TI calculator. This lab has 5 questions for a total of 0 points.

1. Below is the graph of f(x).



Find the value of the following limits. If the limit does not exist, write DNE.

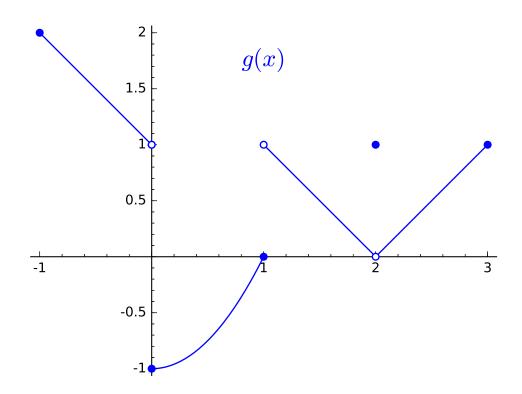
(a)
$$\lim_{x \to -2} f(x) =$$

(b)
$$\lim_{x \to 1^+} f(x) =$$

(c)
$$\lim_{x \to 1^{-}} f(x) =$$

(d)
$$\lim_{x \to 1} f(x) =$$

2. Below is the graph of g(x).



Find the value of the following limits. If the limit does not exist, write DNE.

(a)
$$\lim_{x \to -1^+} f(x) =$$

(b)
$$\lim_{x \to -1^{-}} f(x) =$$

(c)
$$\lim_{x \to -1} f(x) =$$

(d)
$$\lim_{x \to 0^+} f(x) =$$

(e)
$$\lim_{x \to 0^{-}} f(x) =$$

(f)
$$\lim_{x \to 0} f(x) =$$

(g)
$$\lim_{x \to 1^+} f(x) =$$

(h)
$$\lim_{x \to 1^{-}} f(x) =$$

(i)
$$\lim_{x \to 1} f(x) =$$

(j)
$$\lim_{x \to 2^+} f(x) =$$

(k)
$$\lim_{x \to 2^{-}} f(x) =$$

(1)
$$\lim_{x \to 2} f(x) =$$

- (m) What is the value of f(0)? _____
- (n) What is the value of f(1)? _____
- (o) What is the value of f(2)? _____

3.	Write the definition of $\lim_{x\to \frac{\pi}{4}}\cos(x)=\frac{\sqrt{2}}{2}$ using the formal epsilon-delta form of the definition of a limit.
4.	Write the solution set, in interval notation, of the following absolute value inequalities. (a) $0 < x - 2 < 0.5$
	(b) $0 < x+5 < 0.25$
	(c) $ x^2 - 4 < 1$
5.	Describe, via a graph and a mathematical expression, the punctured interval around $x = 2$ with a radius of 0.1.