Practice Quiz Math 131 Fall 2019

Name: _____

Content: This practice quiz covers sections 1.1, 1.2 and 1.3.

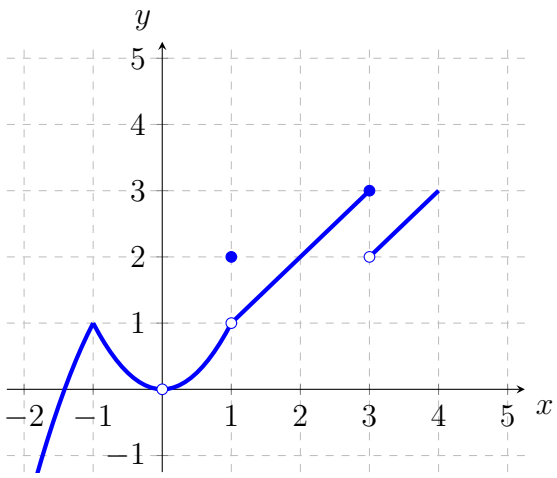
- Estimate the slope of a curve at a point using a graph.
- Evaluate limits using a graph.
- Explain the difference between limits, left limits, and right limits.
- Use numerical and graphical methods to estimate limits of functions.
- Evaluate limits of polynomials, rational functions, trig functions, exponential functions, logarithmic functions, and piece-wise functions.
- Evaluate limits of the product and quotient of functions.

Directions:

- You have 15 minutes to complete this quiz.
- You are allowed one hand-written sheet of notes on regular 8.5-11 paper, front and back.
- You are allowed a non-graphing calculator.
- Show all of your work.
- If you have any questions, raise your hand.

Question	Points	Score
1	9	
2	5	
Total:	14	

1. (9 points) Compute the limits using the graph of $f(x)$. If the limit does not exist write DNE.



1. $\lim_{x\to 0^+} =$ _____
2. $\lim_{x\to 0^-} =$ _____
3. $\lim_{x\to 0} =$ _____
4. $\lim_{x\to 1^+} =$ _____
5. $\lim_{x\to 1^-} =$ _____
6. $\lim_{x\to 1} =$ _____
7. $\lim_{x\to 3^+} =$ _____
8. $\lim_{x\to 3^-} =$ _____
9. $\lim_{x\to 3} =$ _____

2. (5 points) Evaluate the limit if it exists.

$$\lim_{x\to -2} \frac{x^2+x-2}{x+2}.$$