Practice Quiz Math 132 Fall 2019

Name: _____

Content: This practice quiz covers sections 4.2, 4.3 and 4.4.

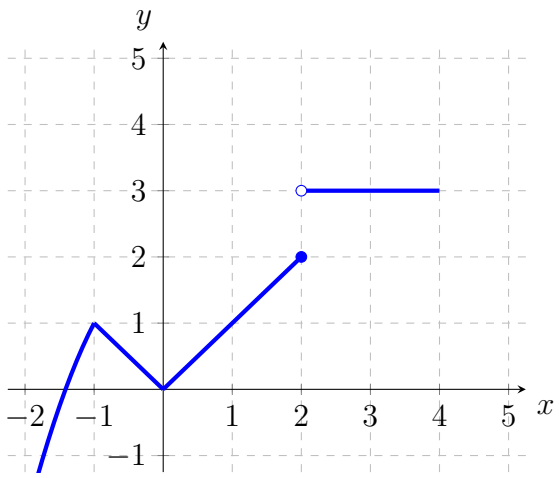
- Translate sums in to sigma notation.
- Evaluate expressions written in sigma notation.
- Approximate areas under a curve using a Riemann sum.
- Explain how a definite integral computes area under a curve.
- Use graphs and signed area to understand the value of a definite integral.

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	10	
Total:	19	

1. (9 points) Use the graph of $f(x)$ to compute the definite integrals.



1. $\int_{-1}^{1} f(x)\,dx =$ _____ 2. $\int_{0}^{4} f(x)\,dx =$ _____ 3. $\int_{2}^{0} f(x)\,dx =$ _____

2. (10 points) Using Sigma notation to write an expression that approximates the area under the curve $y = e^{\sin(x)}$ on the interval $[0, 3]$ using the midpoint rule with 100 rectangles.