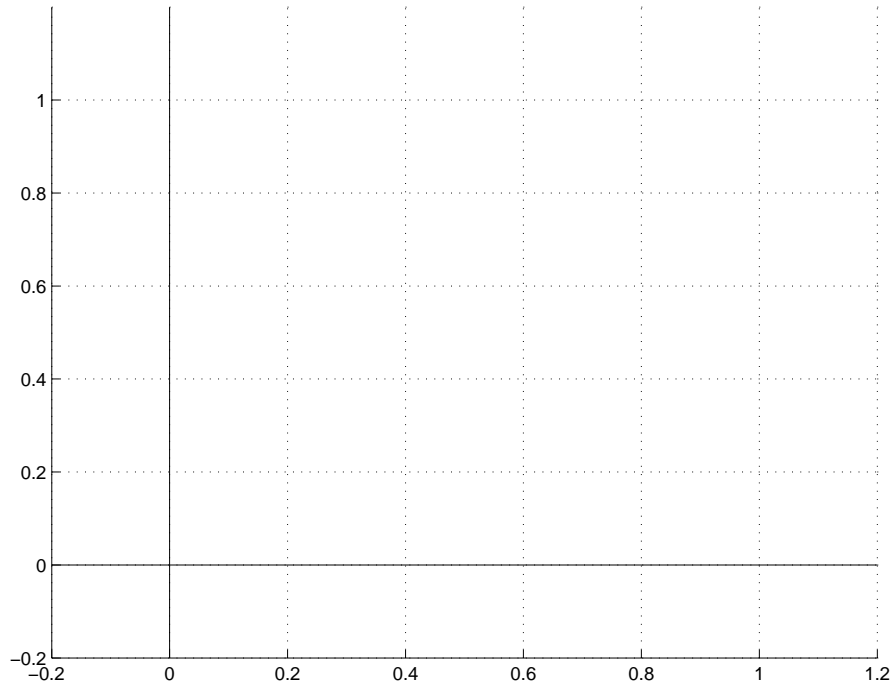


NAME AND SECTION: _____

INSTRUCTOR'S NAME: _____

QUIZ 2

1. Draw a graph of the function $f(x) = x$.



2. Approximate the area under $f(x)$ on the interval $[0, 1]$ by dividing the interval $[0, 1]$ into 3 subintervals and using the value of the function at the left endpoints. Draw the rectangles and compute the approximate area.

$$L_3 =$$

3. Approximate the area under $f(x)$ on the interval $[0, 1]$ by dividing the interval $[0, 1]$ into 5 subintervals and using the value of the function at the right endpoints. Draw the rectangles and compute the approximate area.

$$R_5 =$$

4. What is the approximated area under the curve if we divide the interval $[0, 1]$ into n subintervals using the left endpoints? (You can use Σ notation if you want)

$$L_n =$$