

**232 Quiz 5**

**Name:** \_\_\_\_\_

October 7, 2011

**Name:** \_\_\_\_\_

**Section:** \_\_\_\_\_

**Name:** \_\_\_\_\_

On this quiz you will use four different methods to investigate the definite integral

$$\int_1^2 (7 - 2x) dx.$$

1. Using a graph and known geometric area formulas for simple shapes.
2. Using properties of definite integral formulas as well as formulas for the definite integrals of certain basic functions.
3. Using a Midpoint Sum with  $n = 2$ . (Please draw a clear, labeled picture of your rectangles and list the area of each rectangle separately).
4. Using a limit of Riemann Sums.