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

**Quiz**

1. Consider the graph of a function *f(x)* shown below and determine whether the given quantity is approximately positive, negative, or zero:

a)

b)

c)

2. Find the following integrals:

a)

b) 

3. Find the area under the graph from to . Make sure to **sketch the function and shade** the region whose area you are looking for

4. Find the area between and . Make sure to **sketch the functions and shade** the region whose area you are looking for).

5. Suppose the marginal cost for producing *q* number of widgets is , and the fixed cost is *$103*. Find the formula for the cost function and find the cost of producing 10 items.