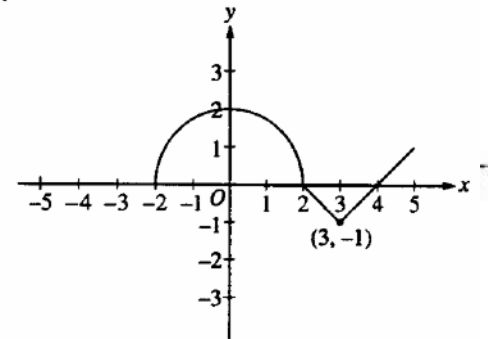Analysis of Functions HW Quiz   Name_____
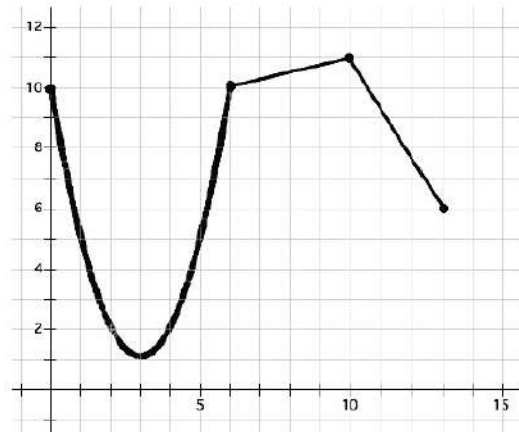
_____1. Domain   a. $(0, 2)$

_____2. Interval(s) where   b. $[-2, 5]$
         Decreasing
                                  c. $(0,2)$ and $(2,3)$
_____3. Interval(s) where
         Increasing   d. $[-1, 2]$

_____4. x-intercept   e. $(-2, 0), (2, 0), (4, 0)$

_____5. Range   f. $(-2,0)$ and $(3,5)$

_____6. Maximum

2. Use the graph right to answer the questions below. Estimate where needed.

a. The absolute minimum is:

b. The absolute maximum is:

c. The graph is increasing on the
    interval(s) of:

d. The graph is decreasing on the
    interval(s) of:

e. The graph is constant on the interval
    of: i.   The x-intercept(s) are:

                                              j.   The y-intercept is:
f. The domain and range are:
                                              k.   Find when f(x) > 0

g. Find f(6)   h) Find f(x) = 6   l.   f(x) ≤ 0

                                              m. The average rate of change from x = 0 to
                                                   x = 10 is?