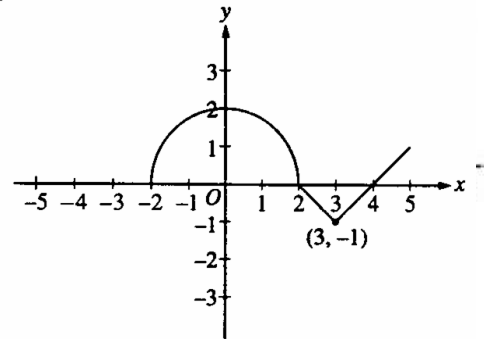


Analysis of Functions HW Quiz

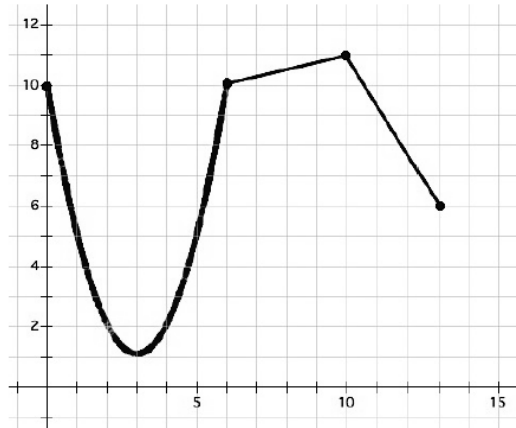
Name _____

- ____ 1. Domain
 - ____ 2. Interval(s) where Decreasing
 - ____ 3. Interval(s) where Increasing
 - ____ 4. x-intercept
 - ____ 5. Range
 - ____ 6. Maximum
- a. $(0, 2)$
 - b. $[-2, 5]$
 - c. $(0, 2)$ and $(2, 3)$
 - d. $[-1, 2]$
 - e. $(-2, 0)$, $(2, 0)$, $(4, 0)$
 - f. $(-2, 0)$ and $(3, 5)$



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:
- f. The domain and range are:
- g. Find $f(6)$
- h) Find $f(x) = 6$



- i. The x-intercept(s) are:
- j. The y-intercept is:
- k. Find when $f(x) > 0$
- l. $f(x) \leq 0$
- m. The average rate of change from $x = 0$ to $x = 10$ is?

