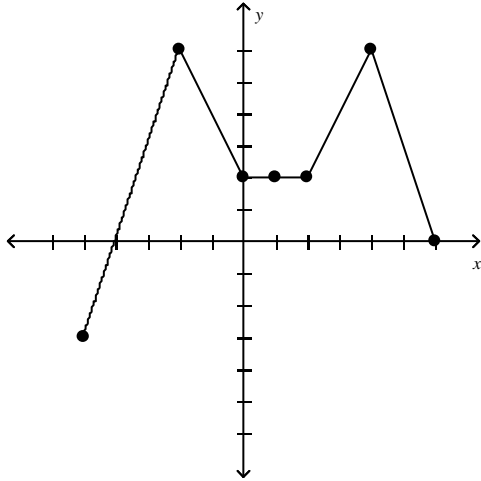
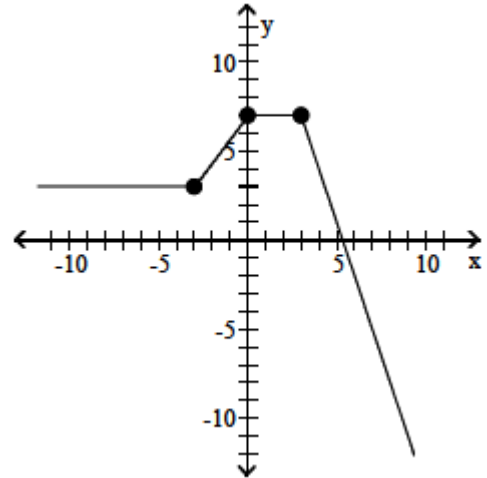


Use the graph of  $f(x)$  below to answer #1 – 8.



1. List the x-intercept(s).
2. List the y-intercept(s).
3. State the domain.
4. State the range.
5. State whether the function is even, odd, or neither.
6. What is the minimum?
7. Where is the minimum?
8. What is  $f(-2)$ ?

7. Use the graph to determine the interval(s) over which the function is increasing, decreasing, or constant.



Use a graphing utility to graph the function and approximate any local maxima and local minima. Determine where the function is increasing and where it is decreasing. If necessary, round the answers to two decimal places.

8.  $f(x) = -0.3x^3 + 0.2x^2 + 4x - 5$

9. Bob owns a watch repair shop. He has found that the cost of operating his shop is given by  $c(x) = 3x^2 - 24x + 58$ , where  $c$  is cost and  $x$  is the number of watches repaired. How many watches must he repair to have the lowest cost?