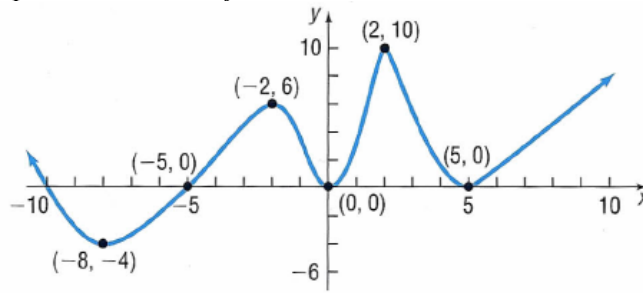


Success is the maximum utilization of the ability you have. – Zig Ziglar

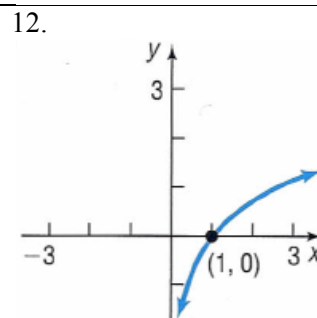
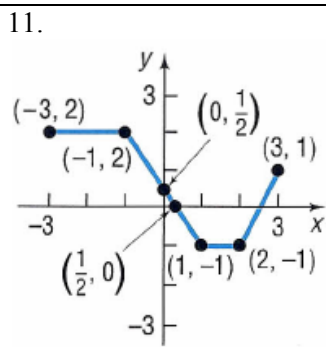
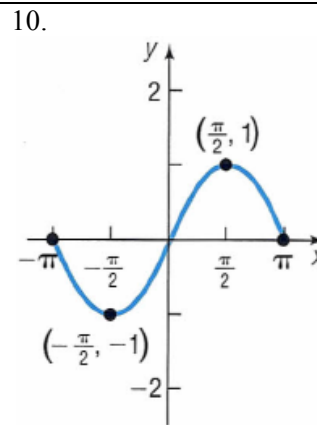
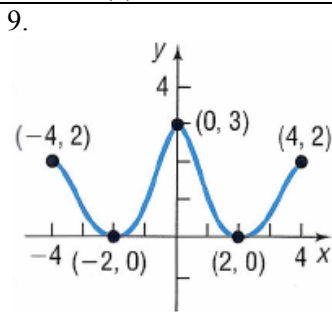
In problems 1-8, use the given graph of the function f .



1	Is f increasing on the interval $(-8, -2)$?
2	Is f increasing on the interval $(2, 10)$?
3	List the interval(s) on which f is increasing. Justify your answer.
4	List the interval(s) on which f is decreasing. Justify your answer.
5	List the value(s) of x at which f has a local maximum. Justify your answer.
6	List the value(s) of x at which f has a local minimum. Justify your answer.
7	Find the x -intercepts.
8	Find the y -intercepts.

For problems 9-12, the graph of a function is given. Use the graph to find:

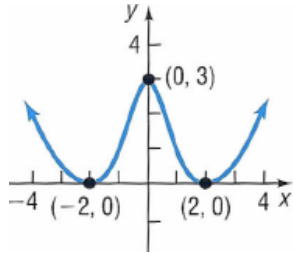
- (a) Its domain and range
- (b) The x - and y - intercepts
- (c) The intervals of increase. Justify.
- (d) The intervals of decrease. Justify.
- (e) The intervals of constant. Justify.



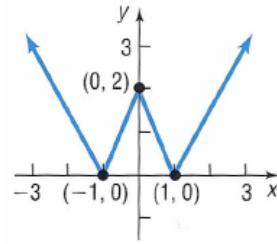
In problems 13-16, the graph of a function f is given. Use the graph to find:

- The numbers, if any, at which f has a local maximum. What are those local maxima?
- The numbers, if any, at which f has a local minimum. What are those local minima?

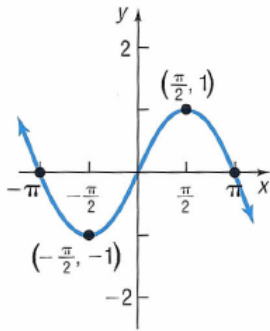
13.



14.



15.



16.

