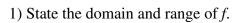
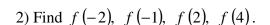
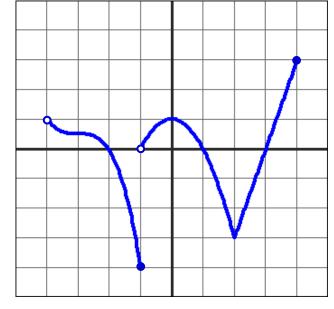
Precalculus 115, section 2.3 Information from the Graph of a Function

notes by Tim Pilachowski

Example A. The graph of a function f(x) is given to the right below.



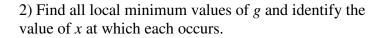




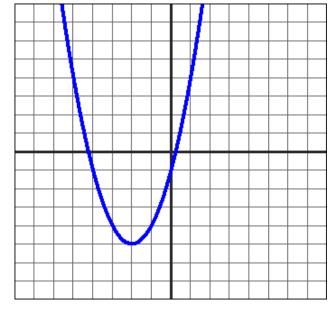
- 3) Identify the *y*-intercept.
- 4) Identify the *x*-intercepts.
- 5) Find the values of x for which $f(x) \ge 0$.
- 6) Find the values of x for which $f(x) \le 0$.
- 7) Determine the interval(s) on which f is increasing.
- 8) Determine the interval(s) on which f is decreasing.

Example B. The graph of a function g(x), as seen on a graphing utility, is given to the right below.

1) Find all local maximum values of g and identify the value of x at which each occurs.

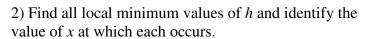


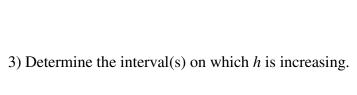
- 3) Determine the interval(s) on which g is increasing.
- 4) Determine the interval(s) on which g is decreasing.

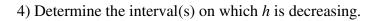


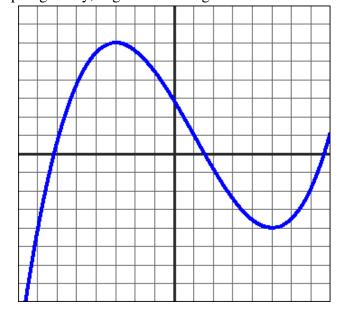
Example C. The graph of a function h(x), as seen on a graphing utility, is given to the right below.

1) Find all local maximum values of h and identify the value of x at which each occurs.



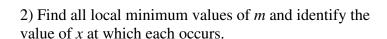






Example D. The graph of a function m(x), as seen on a graphing utility, is given to the right below.

1) Find all local maximum values of m and identify the value of x at which each occurs.



- 3) Determine the interval(s) on which m is increasing.
- 4) Determine the interval(s) on which m is decreasing.

