Analyze the Graph

1) Viewing Rectangle
   Xmin: Ymin: Xmax: Ymax: Xscl: Yscl:

2) \( x \)-intercept(s):

3) \( y \)-intercept:

4) Function?

5) Domain:

6) Range:

7) Where does \( f(x) = 0 \)?
   List the \( x \)-values.

8) Where is \( f(x) < 0 \)?
   State the \( x \)-values, interval notation.

9) Where is \( f(x) \geq 0 \)?
   State the \( x \)-values, interval notation.

10) Find \( f(2) \).

11) Find \( f(-5) \).

12) How many times does the line \( y = 2 \) intersect the graph?

13) Where does \( f(x) = 4 \)?
   List the \( x \)-values

14) Where does \( f(x) = -5 \)?
   List the \( x \)-values

15) Find \( f(-1) - f(2) \).

16) Find \( 3f(1) \).

17) Absolute Maximum value:

18) Absolute Minimum value:

19) Relative Maximum value:

20) Relative Minimum value:

21) Where is the graph increasing?
   State the \( x \)-values, interval notation.

22) Where is the graph decreasing?
   State the \( x \)-values, interval notation.

23) Is the Graph a One-to-One Function?