FUNCTIONS 1

1. Use the graph to answer the following:

- a. Find f(0), f(2) and f(3).
- b. Is f(8) positive or negative?
- c. Is f(-2) positive or negative?
- d. Domain and range
- e. For what values of x is f(x) = 0?
- f. For what values of x is f(x) > 0?
- g. Intervals where the function is

increasing or decreasing.

- h. Local and absolute extrema (maximum ,minimum).
- i. Horizontal and vertical asymptotes, if any.
- 2. Use the graph to answer the following:
- a. What is f(2)?
- b. Find x so that f(x) = 1.
- c. Find the zeros of f(x).
- d. What are the maximum and minimum?
- e. On what intervals is f(x) increasing?
- f. On what intervals is f(x) decreasing?
- g. Domain and range.
- h. Find the intersections with the x axis and the y axis
- i. Horizontal and vertical asymptotes, if any.





SOLUTION

