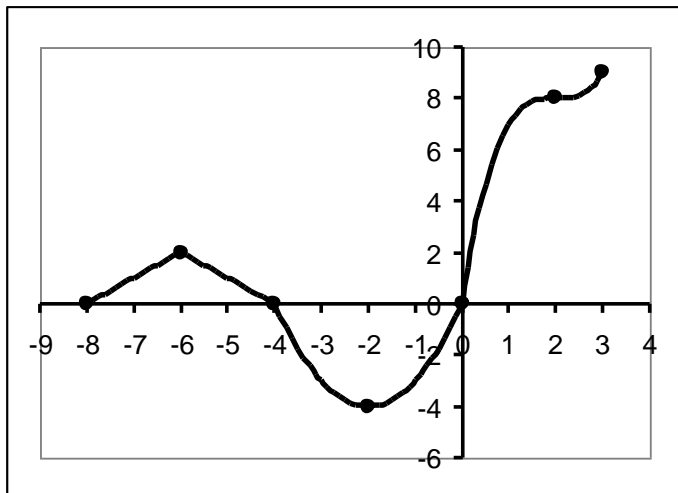


Math 103 – Section 2.1 - Functions – From graphs

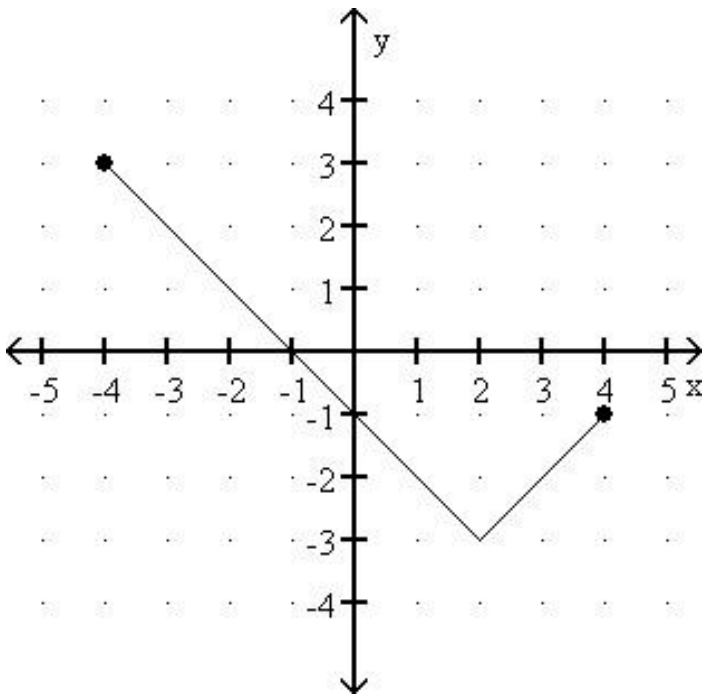
- 1) You are given the graph of the function $f(x)$. Use the following graph to answer the questions given below.



- a) Find $f(2)$
- b) Find x when $f(x) = -4$
- c) What is the y-intercept? Write as an ordered pair.
- d) What are the x-intercepts? Write as ordered pairs.
- e) What is the domain of f ? Write in interval notation _____
Write in set builder notation _____
- f) What is the range of f ? Write in interval notation _____
Write in set builder notation _____
- g) For what values of x is $f(x) = 0$?
- h) Solve the equation $f(x) = 9$
- i) What are the zeros of the function?

2) Given a graph

- a) Is it a function? Explain.
- b) If so, use proper notation to denote the function
- c) Give domain (interval and set builder notation)
- d) Give range (interval and set builder notation)
- e) Give the x-intercept(s). Write as ordered pairs.
- f) Give y-intercept. Write as ordered pair.
- g) Give the zeros of the function
- h) Questions of the type: Given x , find y
- i) Rephrase question (h) using function notation
- j) Question of the type: given y , find x
- k) Rephrase question (j) using function notation
- l) Questions of the type: what output corresponds to an input of...
- m) Questions of the type: what...



Math 103 - Section 2.1 – Functions – From Equations

Given an equation relating two variables,

- a) Is it a function? Explain.
- b) If so, use proper notation to denote the function
- c) Give y-intercept. Write as ordered pair.
- d) Make up questions of the type: Given x , find y
- e) Rephrase question (h) using function notation
- f) Make up questions of the type: what output corresponds to an input of....
- g) Evaluate the function at an expression