y y x Determine whether or not each of the following graphs 9. represents a function. 1. 10. 2. 3. For each set of points, (a) Graph the set of points. (b) Determine whether or not the set of points represents a function. Justify your answer. 4. **11.** $\{(1, 5), (2, 4), (-3, 4), (2, -1), (3, 6)\}$ 124.1(ur answ)4.7(er)7.8(.) J3.5928 1.1497 D0 J407.4(() 582.7(3) 5. 6. 7. 8.

Answer the following.

- **17.** The graph of y = f(x) is shown below.
 - (a) Find the domain of the function. Write your answer in interval notation.
 - (b) Find the range of the function. Write your answer in interval notation.
 - (c) Find the following function values: f(-2); f(0); f(4); f(6)
 - (d) For what value(s) of x is f(x) = 9?

- **19.** The graph of y = g(x) is shown below.
 - (a) Find the domain of the function. Write your answer in interval notation.
 - (b) Find the range of the function. Write your answer in interval notation.
 - (c) Find the following function values: g(-2); g(0); g(2); g(4); g(6)
 - (d) Which is greater, g(-2) or g(3)?

- **18.** The graph of y = g(x) is shown below.
 - (a) Find the domain of the function. Write your answer in interval notation.
 - (b) Find the range of the function. Write your answer in interval notation.
 - (c) Find the following function values: g(-2); g(0); g(1); g(3); g(6)
 - (d) For what value(s) of x is g(x) = -2?

- **20.** The graph of y = f(x) is shown below.
 - (a) Find the domain of the function. Write your answer in interval notation.
 - (b) Find the range of the function. Write your answer in interval notation.
 - (c) Find the following function values: f(-3); f(-2); f(-1); f(1); f(4)
 - (d) Which is smaller, f(0) or f(3)?

For each of the following functions:

(a)