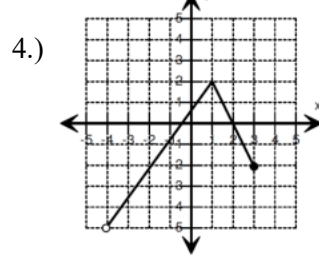
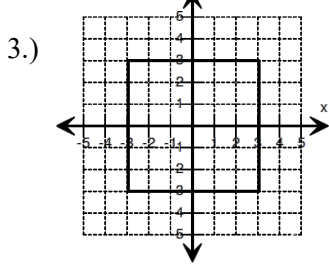


For #1-2: Read the scenario and determine if the scenario describes a continuous or discrete function.

- 1.) The number of items you buy at the grocery store each week.
- 2.) The depth of penny when it is thrown in a pool.

For #3-5: Use the given coordinate points or graph to answer the required information.



5.) $\{(-3, 5), (2, 6), (-1, 6), (8, 2)\}$

Domain: _____

Domain: _____

Domain: _____

Range: _____

Range: _____

Range: _____

Continuous or Discrete

Continuous or Discrete

Continuous or Discrete

Is this a function? _____

Is this a function? _____

Is this a function? _____

For #6-7: Express the inequality in interval notation.

6.) $-3 \leq x < 4$

7.) $x > 2$ or $x \leq -1$

For #8-10, given the function, find the required values.

8.) $f = (2, -1), (4, -3), (-3, 6), (0, 6)$

9.) $f(x) = 2x + 3$

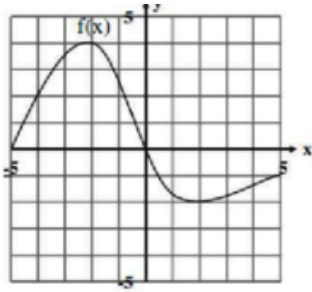
a. Find $f(-3)$: _____

a. Find $f(-5)$: _____

b. For what value (s) of x is $f(x) = 6$? _____

b. For what value (s) of x is $f(x) = 9$? _____

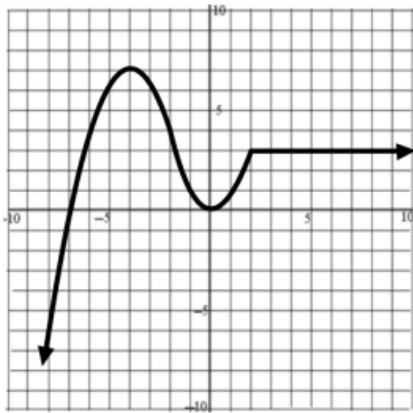
10.)



a. Find $f(-4)$: _____

b. For what value (s) of x is $f(x) = 4$? _____

For #11-18: Use the following graph of $g(x)$ to find the required information.



11.) Identify the negative interval(s): _____

12.) Identify the positive interval(s): _____

13.) Identify the increasing interval(s): _____

14.) Identify the decreasing interval(s): _____

15.) Identify the x -intercept(s): _____

16.) Identify the y -intercept(s): _____

17.) Identify the absolute maximum value: _____

18.) Identify the absolute minimum value: _____

For #19-20: Use the tables of functions g and h to evaluate the following compositions.

x	$g(x)$
-2	6
-1	0
3	-5
5	-1

x	$h(x)$
-1	4
1	5
3	-2
4	-3

19.) $g(h(3)) =$ _____

20.) $h(h(-1)) =$ _____