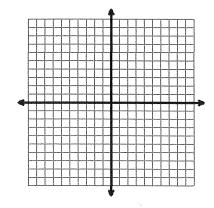
Algebra I Review Functions

Complete the table and graph the following

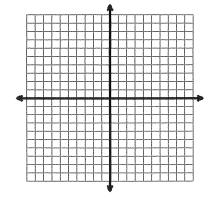
1.
$$f(x) = 2x + 2$$

x	у



2.
$$y = \frac{1}{3}x - 1$$

y



Determine if the following are functions.

3.

x	y
2	1
3	2
4	1
5	4

4

x	3	3	3	3
y	1	2	3	4

5. Find the range of this function if the domain is $\{-1, 0, 5\}$? y = -3x + 5

Answer

6. Find the domain of this function if the range is $\{-3, 0\}$? y = -3x + 6

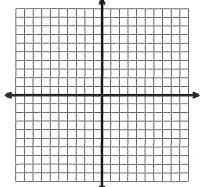
Answer

7. Solve for y. 4x + 3y = 24

Answer

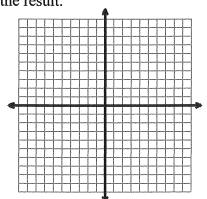
8. Solve for y. Graph the result.

$$3y + 2x = -12$$



9. Solve for y. Graph the result.

$$3x + 4y = -8$$



Answer	

11. If (-4, y) is a solution to y = 3x - 7, what is the value of y?

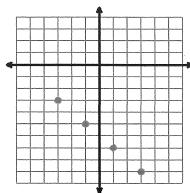
 Answer	

12. Use the graph on the right to answer the following.

Domain:

Range:

Function rule:



13. Which ordered pair is NOT on the graph of 5x + y = 1?

- A. (0,1)
- B. (-1, 5)
- C. (1, -4)
- D.(-1,6)

14. Write the function rule for the table.

a

x	y
-2	-3
-1	-1
0	1
1	3

b.

x	y
0	2
1	5
2	8
3	11

Function	mula.		
Function	mue:		

Function	rule:		
I unouon	Tuic.		

____ 15. Daisy was picking flowers to give to her friends. Each bouquet contained 6 freshly picked flowers. Which of the following statements is true?

- a. The number of flowers is independent of the number of bouquets.
- b. The number of bouquets is dependent on the number of flowers picked.
- c. The number of flowers is dependent on the number of bouquets.
- d. Not enough information.

$$C = 250z + 50$$

Where C is the total cost and z is the weight of gold in ounces. Determine the independent and dependent variables.

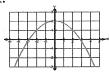
Independent:

Dependent:

17. If (-2, y) is a solution to 4x - y = 9, find the value of y. Show your work.

18. Determine which relation is *not* a function.

A.



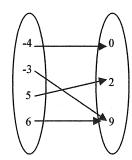
B.

x	-2	0	1	3
y	0	0	2	1

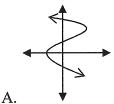
C.

x	v
-4	0
-3	2
-3	9
5	9

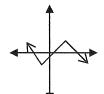
D.



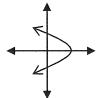
19. Which one of the following graphs is a function?



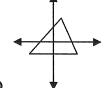
В.



 \mathbf{C}



D.



Identify the independent and dependent variables.

20. Weight of apples, cost of apples

21. Total cost of books, and the number of books

Dependent Variables:

Dependent Variable:

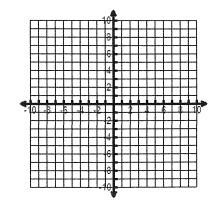
Independent Variable:

Independent Variable:

x	y
-4	-2
-2	-1
6	3
8	4

23. Graph the data.

x	y
0	0
1	3
3	5
5	7
7	9



22. Function rule:

Function Notation- use the following information to answer.

$$f(x) = 2x - 4$$

$$g(x) = x^2 - 4x$$

25.)
$$g(-3) =$$

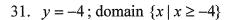
26.)
$$f(3) - 1 =$$

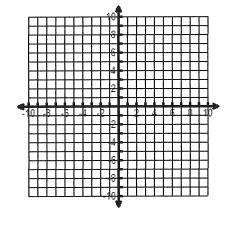
28.)
$$f(2) + 3 =$$

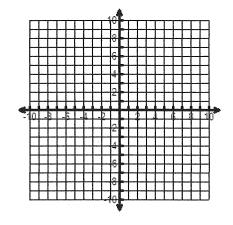
29.)*
$$g(f(4)) =$$

Graph the function with the given domain.

30.
$$y = 3x - 4$$
; domain $\{x \mid x \le 2\}$







_____32. You pay \$50 to attend dance camp. You pay \$5 for transportation each day. Which of the following expresses the total cost *C* (in dollars) as a function of the number of days *d* that you attend camp?

A.
$$C = 55d$$

B.
$$C = 50 + 5d$$

C.
$$C = 50d + 5$$

33. If (x, -16) is a solution to 14x - 6y = 12, what is the value of x?