



What is the value of $f(-3)$ for each function?

1. $f(x) = 4x - 9$

2. $f(x) = -\frac{1}{3}x + 13$

3. $f(x) = -2x - 11$

Draw the graph of each linear function.

4. $f(x) = 3x - 6$

5. $f(x) = -2(x + 4)$

6. $f(x) = \frac{1}{2}x + 5$

Use the data in each table to write a linear function using function notation.

7.

x	y
1	-0.6
2	1.8
3	4.2

8.

x	y
-5	-10
-2	-1
4	17

9.

x	y
-5	8
-2	2
8	-18

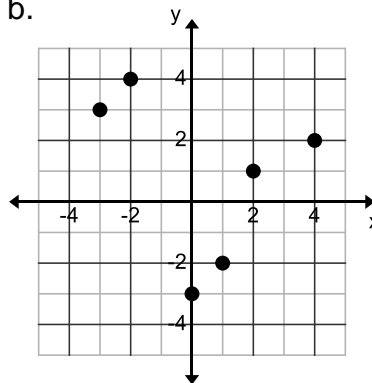
10. A function, $f(x) = 4x + 5$, has a domain $0 \leq x \leq 50$. What is its range?

11. What are the domain and range of the following relations

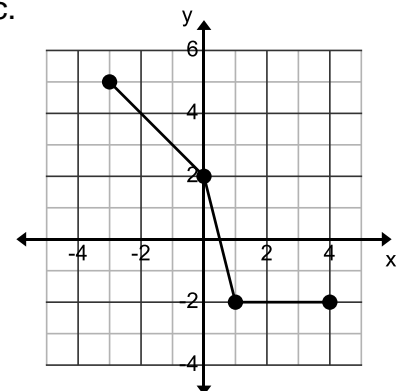
a.

x	y
-4	0.6
1	1.2
7	2.6

b.



c.



12. Which of the relations in 11 are functions?

13. Which of the functions in 11 are one to one?

14. Sasha sells T-shirts. Each day she earns a set amount, plus a commission. Write a linear function $f(x)$ to determine Sasha's pay.

T-shirts	1	2	3	4	5
Total Pay	82	86	90	94	98

If Sasha sells 27 T-shirts in one day how much money does she earn that day?

15. For a basic subscription, a cable television provider charges an activation fee of \$60, plus \$125 per month. What linear function represents the total cost of a basic cable subscription for t months? What is the total cost for two years of service?
16. Given $f(x) = 4(x+2) - 3$ find
- a. $f(7)$ b. $f(-3)$