



3-2 Additional Practice

Linear Functions

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

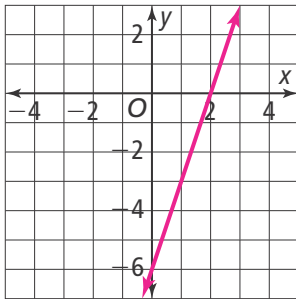
1. $f(x) = 4x - 9$
-21

2. $f(x) = -\frac{1}{3}x + 13$
14

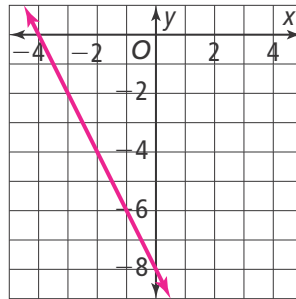
3. $f(x) = -2x - 11$
-5

Draw the graph of each linear function.

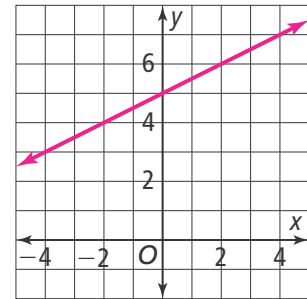
4. $f(x) = 3x - 6$



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
-3	-0.6
1	0.2
7	1.4

$f(x) = 0.2x$

8.

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

$f(x) = 3x + 5$

9.

x	y
-5	8
-2	2
8	-18

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

10. A function, $f(x) = 4x + 5$, has a domain $0 \leq x \leq 50$. What is its range?
 $5 \leq y \leq 205$

11. 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?

$f(t) = 125t + 60$; \$3,060