Name _____

## 3-2 Additional Practice

Linear Functions

**What is the value of $f(-3)$ for each function?**
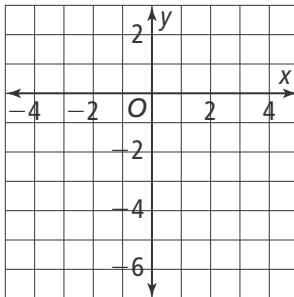
**1.** $f(x) = 4x - 9$
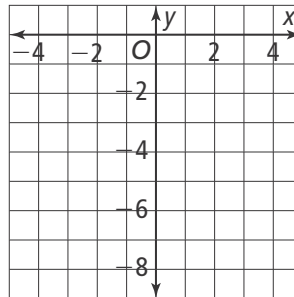**2.** $f(x) = -\frac{1}{3}x + 13$
**3.** $f(x) = -2x - 11$

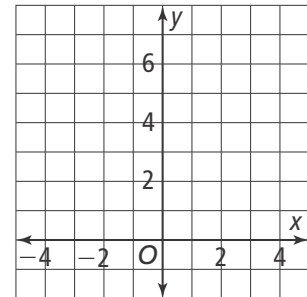**Draw the graph of each linear function.**

**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 |
|---|---|
| −3 | −0.6 |
| 1 | 0.2 |
| 7 | 1.4 |

**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.** 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?