# Skill: Writing Equations of Lines

**Write an equation for the line through the given points or through the given point with the given slope.**

**1.** $(5, 7), (6, 8)$

**2.** $(-2, 3)$; slope $= -1$

**3.** $(1, 2), (3, 8)$

**4.** $(-2, 3)$; slope $= 4$

**5.** $(4, 7)$; slope $= \frac{3}{2}$

**6.** $(6, -2)$; slope $= -\frac{4}{3}$

**7.** $(0, 5), (-3, 2)$

**8.** $(8, 11), (6, 16)$

# Skill: Writing Equations of Lines *(continued)*

**Thinking With Mathematical Models**

**Is the relationship shown by the data linear? If it is, model the data with an equation.**

**9.**

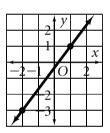| x | y |
|---|---|
| 2 | 3 |
| 3 | 7 |
| 4 | 11 |
| 5 | 15 |

**10.**

| x | y |
|---|---|
| −3 | 4 |
| −1 | 6 |
| 1 | 7 |
| 3 | 10 |

**11.**

| x | y |
|---|---|
| −2 | 5 |
| 3 | −5 |
| 7 | −13 |
| 11 | −21 |

**Write an equation of each line.**

**12.**



**13.**



**14.**