## LESSON 4.4  Practice A
*For use with pages 234–242*

**Tell whether the slope of the line is *positive*, *negative*, *zero*, or *undefined*.**

**1.**

**2.**

**3.**

**4.**

**5.**

**6.**
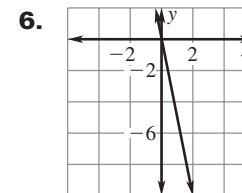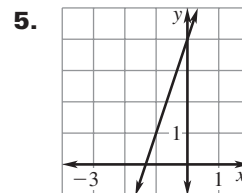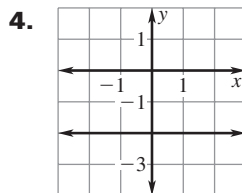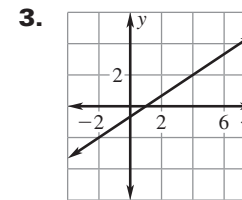
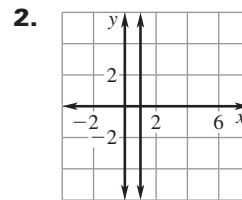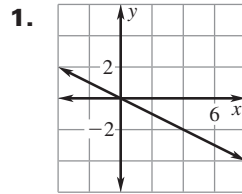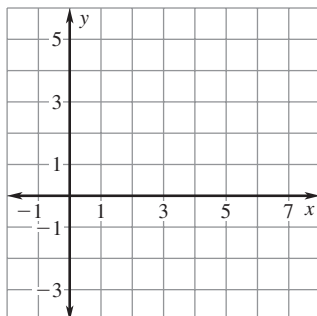**Plot the points and draw a line through them. Without calculating, tell whether the slope of the line is *positive*, *negative*, *zero*, or *undefined*.**
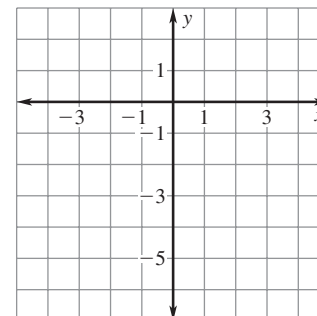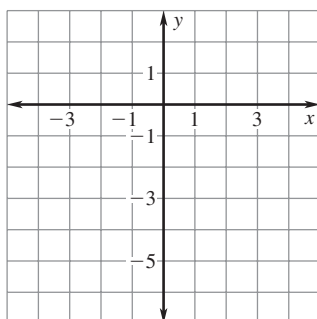
**7.** $(1, 0)$ and $(5, 3)$

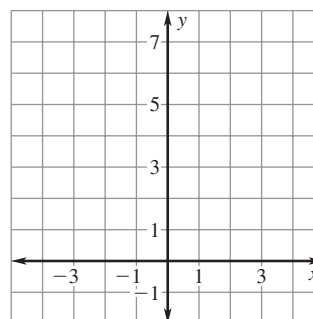**8.** $(-3, -2)$ and $(5, -2)$
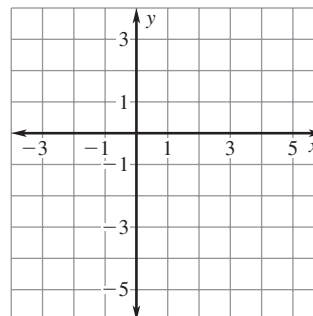
**9.** $(-4, 2)$ and $(3, -5)$

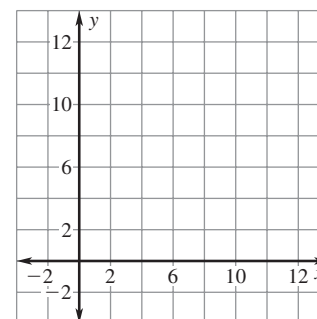**10.** $(2, 2)$ and $(-3, -6)$

**11.** $(-1, 1)$ and $(-1, 5)$

**12.** $(6, 7)$ and $(7, 6)$

**LESSON**
**4.4**  **Practice A** *continued*
*For use with pages 234–242*

**Find the slope of the line that passes through the points.**

**13.**



**14.**



**15.**



**16.**



**17.**



**18.**
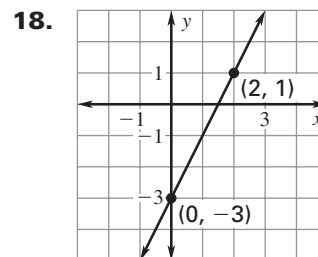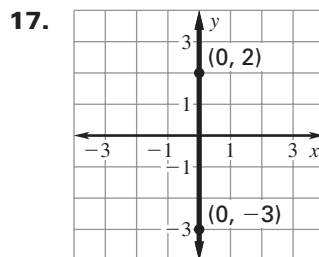


**Find the slope of the line that passes through the points.**

**19.** $(0, 4)$ and $(3, 7)$

**20.** $(2, 5)$ and $(3, 0)$

**21.** $(1, 2)$ and $(2, 5)$

**22.** $(4, -8)$ and $(-3, 6)$

**23.** $(4, 1)$ and $(3, 7)$

**24.** $(4, 8)$ and $(6, 10)$

**25.** $(-3, 7)$ and $(1, -1)$

**26.** $(4, 5)$ and $(-6, 5)$

**27.** $(3, -2)$ and $(3, 4)$

**Find the value of *y* so that the line passing through the two points has the given slope.**
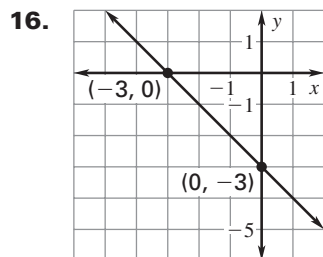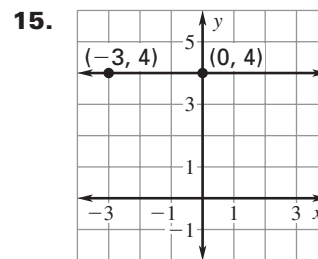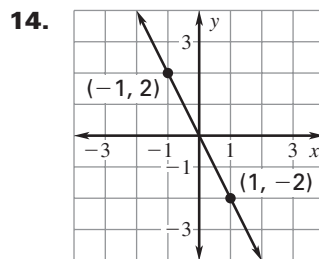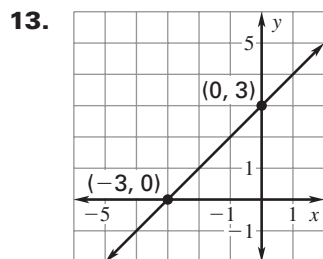
**28.** $(0, y), (2, 7); m = \dfrac{1}{2}$

**29.** $(5, 4), (2, y); m = -\dfrac{1}{3}$

**30.** $(4, 2), (5, y); m = 4$

**31. Plant and Flower Sales** The table shows the amount of money (in dollars) spent by a household on plants and flowers for certain years. Describe the rates of change in the number of dollars spent during the time period.

| Year | 2001 | 2002 | 2003 | 2004 | 2005 |
|---|---|---|---|---|---|
| **Amount spent (dollars)** | 127 | 134 | 139 | 137 | 136 |

**32. Broadway Shows** The graph shows the number of new Broadway show productions for certain years.

**a.** *Describe* the rates of change in the number of shows with respect to time.

**b.** Determine the time interval during which the number of new shows showed the greatest rate of change.

**c.** Determine the time interval during which the number of new shows showed the least rate of change.

**Algebra 1**
Chapter 4 Resource Book