Name _____     Date _____
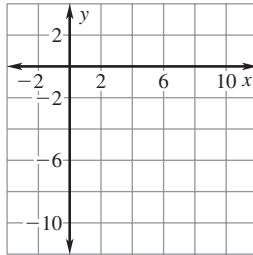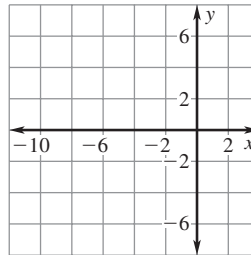
**Practice C**
*For use with pages 234–242*

**Plot the points and draw a line through them. Without calculating, tell whether the slope of the line is *positive*, *negative*, *zero*, or *undefined*.**
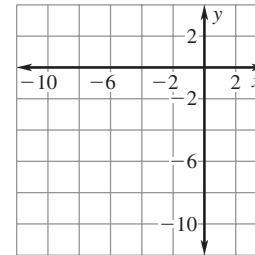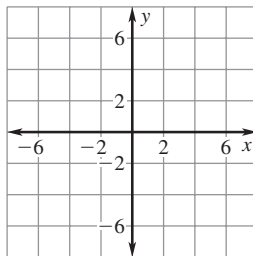
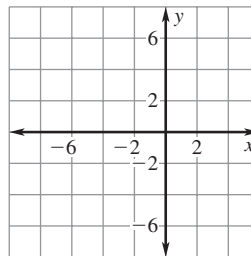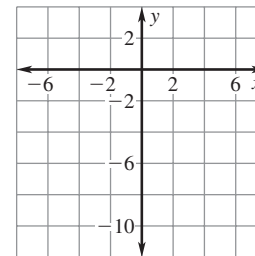**1.** $(2, -5)$ and $(6, -9)$



**2.** $(-4, 5)$ and $(-4, -2)$



**3.** $(-6, -2)$ and $(-1, -8)$



**4.** $(5, 3)$ and $(-4, 3)$



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



**6.** $(6, -4)$ and $(-5, -8)$



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

**7.**



$(-9, 4)$
$(-6, -2)$

**8.**



$(-2, 8)$
$(10, -14)$

**9.**



$(-8, 3)$
$(4, -5)$

**10.**



$(4, 7)$
$(1, 3)$

**11.**



$(-4, 2)$
$(5, -1)$

**12.**



$(-5, 5)$   $(2, 5)$
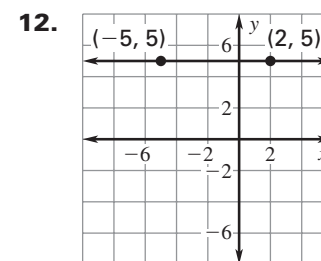
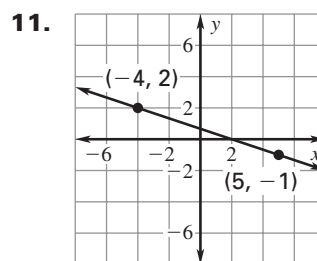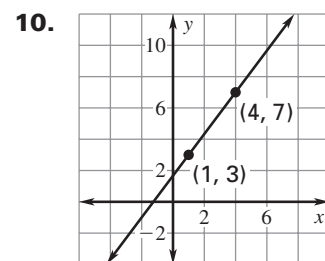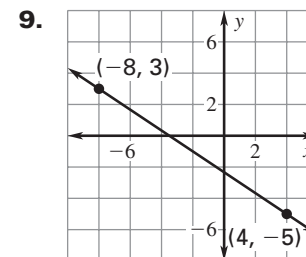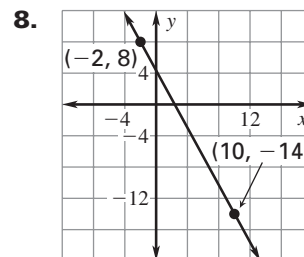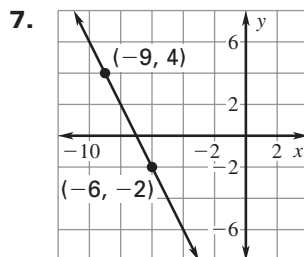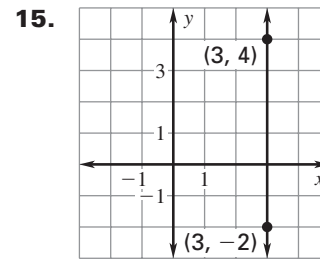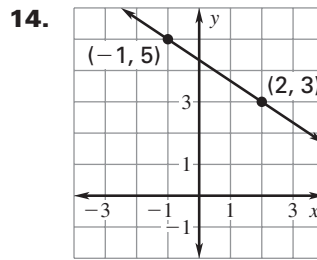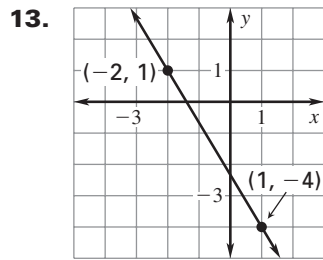**LESSON 4.4** **Practice C** *continued*
*For use with pages 234–242*

**13.** 

**14.** 

**15.** 

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

**16.** $(3, 4)$ and $(8, 7)$

**17.** $(5, 5)$ and $(-2, 1)$

**18.** $(6, -1)$ and $\left(6, \frac{1}{2}\right)$

**19.** $(4, 2)$ and $(-6, 6)$

**20.** $(-3, 4)$ and $(4, 8)$

**21.** $(1, -9)$ and $(6, -5)$

**22.** $(2, -5)$ and $(5, -5)$

**23.** $(-8, -7)$ and $(-4, -2)$

**24.** $(-2, -6)$ and $(4, -5)$

**Find the value of *x* or *y* so that the line passing through the two points has the given slope.**

**25.** $(-3, y), (-9, -2)$; $m = 1$

**26.** $(-2, 8), (x, 4)$; $m = \frac{4}{5}$

**27.** $(7, 5), (1, y)$; $m = -\frac{2}{3}$

**28.** $(x, 8), (2, -1)$; $m = -3$

**29.** $(-1, 5), (-6, y)$; $m = \frac{8}{5}$

**30.** $(-7, -1), (-2, y)$; $m = -\frac{3}{5}$

**31. Biking** Every day, you ride your bike home from school. The graph shows the distance you are from home during your 20-minute bike ride.

  **a.** Determine the time interval during which the distance from home showed the greatest rate of change.

  **b.** Determine the time interval during which the distance from home showed the least rate of change.

  **c.** Give a verbal description of your ride home.
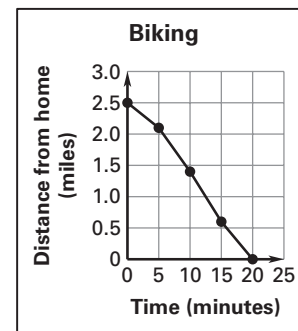


**32. Fuel Consumption** The graph shows the fuel consumption (in miles per gallon) of cars and vans, pickups, and SUVs from 1990 to 2000.

  **a.** During which two-year period did the fuel consumption of vans, pickups, and SUVs decrease the least?

  **b.** During which two-year period did the fuel consumption of cars increase the least?

  **c.** How did the fuel consumption for the types of vehicles change during the 10-year period? *Explain* your reasoning.

**Algebra 1**