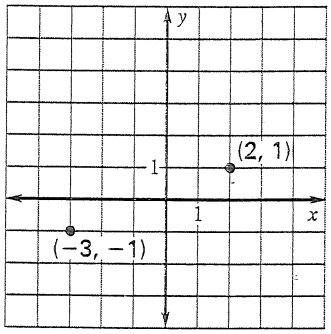
LESSON 3.6

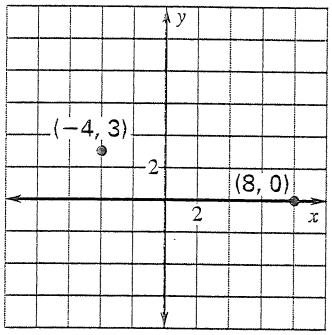
NAME _____ DATE _____

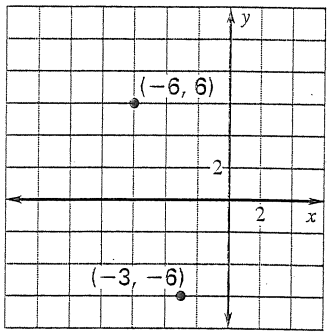
Practice C

For use with pages 165–171

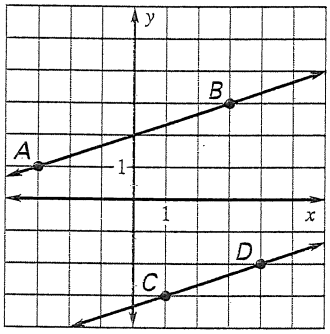
Calculate the slope of the line that passes through the labeled points on the graph.

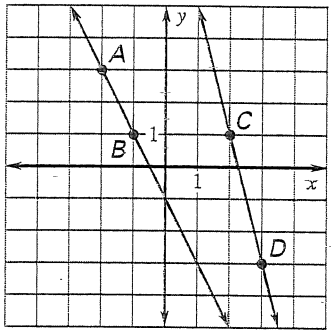
1. 

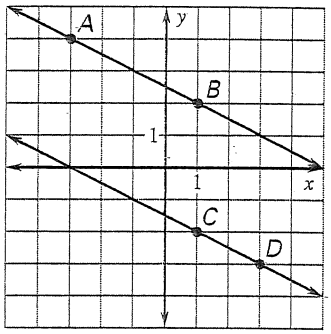
2. 

3. 

Find the slope of each line. Are the lines parallel?

4. 

5. 

6. 

Write an equation of the line.

7. slope $= \frac{2}{5}$
   y-intercept $= -2$

8. parallel to $y = 4x - 4$
   y-intercept $= -\frac{3}{5}$

9. parallel to $y = 8$
   y-intercept $= 0$

Write an equation of the line that passes through the given point P and has the given slope.

10. $P(0, 2)$, slope $= 5$

11. $P(-2, 4)$, slope $= \frac{2}{3}$

12. $P(-3, -3)$, slope $= -3$

Use the following information.

A parallelogram is a four-sided figure whose opposite sides are parallel. Given $A(2, 3)$, $B(1, -6)$, and $C(-2, 5)$.

13. Plot and label the three points.

14. Determine the coordinates of point D so that the points are the vertices of a parallelogram. *Hint*: There is more than one location.

15. If one pair of opposite sides of a parallelogram have positive slopes, will the other pair of sides have negative slopes? Explain.