LESSON 3.6

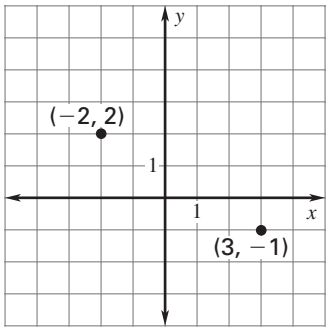
NAME _____ DATE _____

Practice B

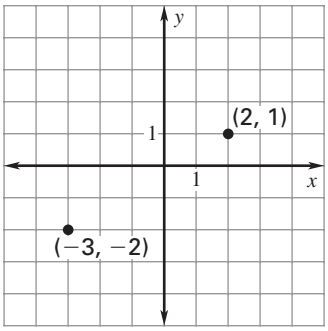
For use with pages 165–171

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

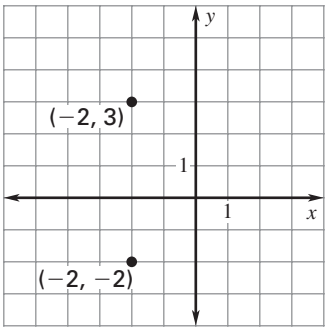
1.



2.

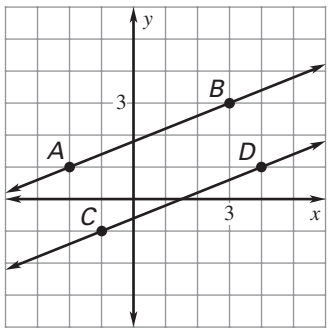


3.

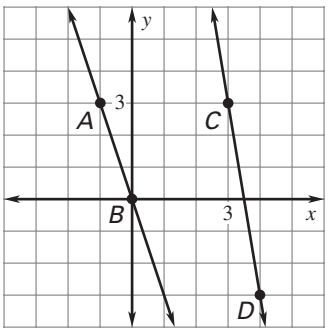


Find the slope of each line. Are the lines parallel?

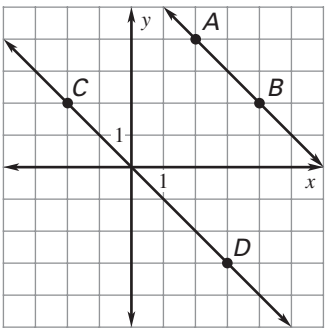
4.



5.



6.



Write an equation of the line.

7. slope $= 2$
y-intercept $= -3$

8. parallel to $y = -3x$
y-intercept $= \frac{1}{3}$

9. parallel to $y = \frac{1}{2}x - 3$
y-intercept $= 6$

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

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

11. $P(5, 6)$, slope $= \frac{4}{5}$

12. $P(-4, -2)$, slope $= -1$

Use the following information.

A parallelogram is a four-sided figure whose opposite sides are parallel. Given $A(2, 3)$, $B(1, -6)$, $C(-3, -4)$, and $D(-2, 5)$.

13. Plot and label the points. Connect the points with a segment to form quadrilateral $ABCD$.

14. Determine the slopes of $\overline{AB}$, $\overline{BC}$, $\overline{CD}$, and $\overline{DA}$.

15. Is quadrilateral $ABCD$ a parallelogram? Explain.