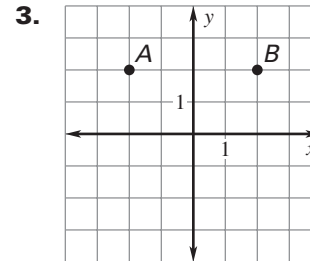
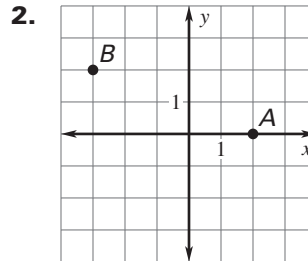
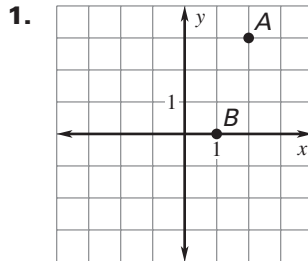
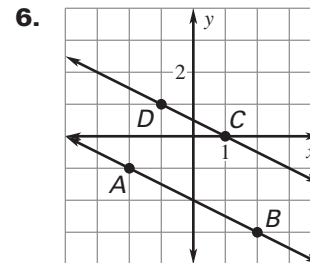
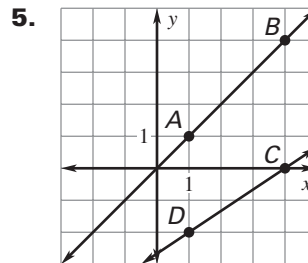
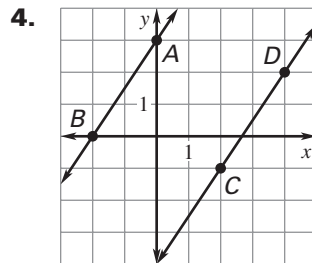
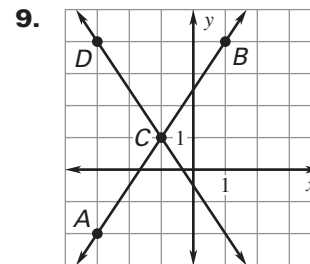
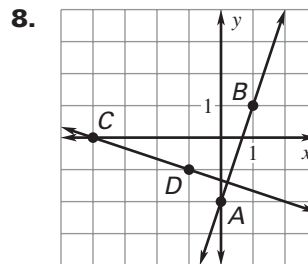
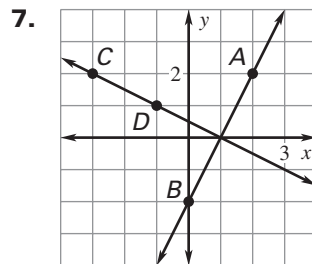


LESSON
3.4**Practice B**

For use with pages 171–179

Find the slope of the line that passes through the points.**Find the slope of each line. Are the lines parallel?****Find the slope of each line. Are the lines perpendicular?****Tell whether the lines through the given points are *parallel*, *perpendicular*, or *neither*.**

10. Line 1: $(-1, 2), (2, 3)$

Line 2: $(0, 0), (3, 1)$

11. Line 1: $(0, 1), (1, 3)$

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

12. Line 1: $(-5, 0), (-3, -2)$

Line 2: $(-2, 2), (0, 4)$

13. Line 1: $(-3, 4), (-3, 1)$

Line 2: $(2, 1), (5, 5)$

14. Line 1: $(-5, 2), (-2, 2)$

Line 2: $(2, 1), (4, 1)$

15. Line 1: $(-2, 5), (1, 4)$

Line 2: $(4, 0), (5, 3)$

Tell whether the intersection of \overleftrightarrow{AB} and \overleftrightarrow{CD} forms a right angle.

16. $A(-8, 3), B(1, 2), C(0, 9), D(-1, 0)$

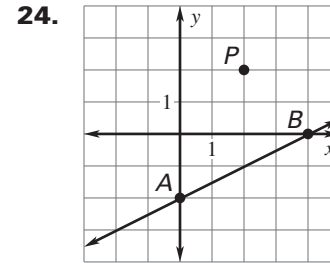
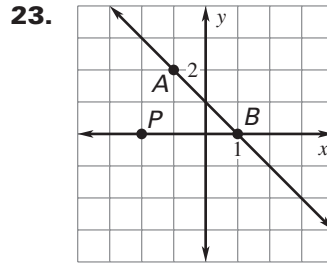
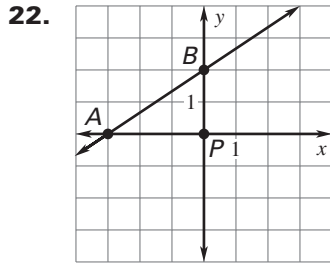
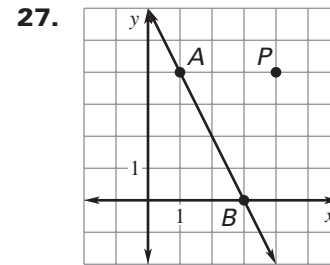
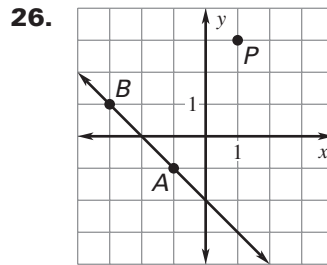
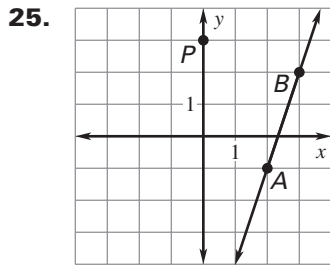
17. $A(3, 2), B(5, 10), C(7, -4), D(3, -3)$

18. $A(5, 4), B(-3, 20), C(9, -2), D(6, 4)$

19. $A(7, 12), B(1, 5), C(10, -7), D(3, -1)$

20. $A(-8, 17), B(-5, 18), C(6, 11), D(5, 8)$

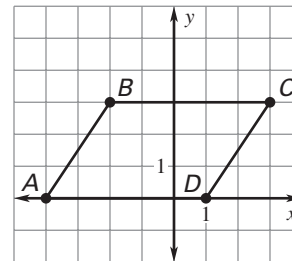
21. $A(-7, 3), B(-10, 15), C(-1, 5), D(4, 35)$

LESSON
3.4**Practice B** *continued*
For use with pages 171–179**Graph the line parallel to line AB that passes through point P .****Graph the line perpendicular to line AB that passes through point P .****In Exercises 28 and 29, consider the three given lines.**Line a : through the point $(2, 0)$ with a y -intercept of $(0, 1)$ Line b : through the point $(2, 0)$ with a y -intercept of $(0, 5)$ Line c : through the point $(2, 0)$ with a y -intercept of $(0, 3)$

28. Which line is most steep?

29. Which line is least steep?

30. **Parallelograms** A parallelogram is a four-sided figure whose opposite sides are parallel. *Explain* why the figure shown is a parallelogram.



31. **Escalators** On an escalator, you move 2 feet vertically for every 3 feet you move horizontally. When you reach the top of the escalator, you have moved a horizontal distance of 90 feet. Find the height h of the escalator.

