

4.5 EXERCISES

HOMWORK KEY

 = **WORKED-OUT SOLUTIONS**
on p. WS1 for Exs. 11, 21, and 41

 = **TAKS PRACTICE AND REASONING**
Exs. 9, 10, 36, 42, 44, 46, and 47

SKILL PRACTICE

1. **VOCABULARY** Copy and complete: Two lines in the same plane are ? if they do not intersect.

2. **WRITING** What is the slope-intercept form of a linear equation?
Explain why this form is called slope-intercept form.

EXAMPLE 1

on p. 244
for Exs. 3–16

SLOPE AND y-INTERCEPT Identify the slope and y-intercept of the line with the given equation.

3. $y = 2x + 1$

4. $y = -x$

5. $y = 6 - 3x$

6. $y = -7 + 5x$

7. $y = \frac{2}{3}x - 1$

8. $y = -\frac{1}{4}x + 8$

9.  **TAKS REASONING** What is the slope of the line with the equation $y = -18x - 9$?

(A) -18

(B) -9

(C) 9

(D) 18

10.  **TAKS REASONING** What is the y-intercept of the line with the equation $x - 3y = -12$?

(A) -12

(B) -4

(C) 4

(D) 12

REWRITING EQUATIONS Rewrite the equation in slope-intercept form. Then identify the slope and the y-intercept of the line.

11. $4x + y = 1$

12. $x - y = 6$

13. $6x - 3y = -9$

14. $-12x - 4y = 2$

15. $2x + 5y = -10$

16. $-x - 10y = 20$

EXAMPLE 2

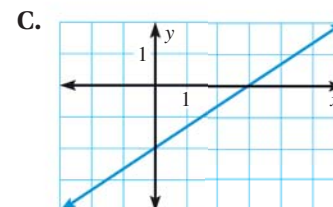
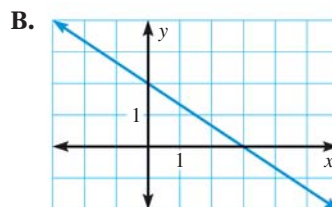
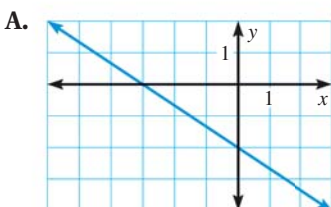
on p. 245
for Exs. 17–29

MATCHING EQUATIONS WITH GRAPHS Match the equation with its graph.

17. $2x + 3y = 6$

18. $2x + 3y = -6$

19. $2x - 3y = 6$



20. **ERROR ANALYSIS** Describe and correct the error in graphing the equation $y = 4x - 1$.

