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Lesson

## Practice C

3.5

For use with the lesson "Graph Using Slope-Intercept Form"

## Identify the slope and $\boldsymbol{y}$-intercept of the line with the given equation.

1. $y=\frac{2}{3} x-4$
2. $y=19-6 x$
3. $6 x+2 y=14$
4. $3 x+2 y=8$
5. $4 x-5 y=15$
6. $6 y-8 x=18$
7. $8 x-10 y=14$
8. $4 x-9 y=18$
9. $5 y-3 x=12$

## Graph the equation.

10. $y=\frac{5}{3} x$

11. $7 x-y=3$

12. $0.5 x-0.2 y=1$

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

14. $6 x+2 y=5$

15. $8 y-2 x=4$

16. $y=-\frac{3}{4} x+6$

17. $4 x-3 y=-6$

18. $-6 x-4 y=8$


For use with the lesson "Graph Using Slope-Intercept Form"

## Determine which lines are parallel.

19. 


20.


## Tell whether the graphs of the two equations are parallel lines.

21. $x-3 y=6, y=-\frac{1}{3} x$
22. $4 x-8 y=8, y=0.5 x-1$

Find the value of $\boldsymbol{k}$ so that the lines through the given points are parallel.
23. Line 1: $(-5,-2)$ and $(0,0)$

Line 2: $(1,6)$ and $(k, 7)$
25. Line 1: $(-2,-7)$ and $(3,8)$

Line 2: $(-3,-6)$ and $(2, k)$
24. Line $1:(-2,8)$ and $(-4,-6)$

Line 2: $(-5, k)$ and $(0,-3)$
26. Line 1: $(-2, k)$ and $(4,-5)$

Line 2: $(-2,3)$ and $(8,-2)$
27. Power Tools You are considering buying a variable-speed drill. One model you are considering has two different speeds. The number of revolutions $r$ of the drill bit in $m$ minutes using the slower speed is given by the equation $r=300 \mathrm{~m}$. The number of revolutions using the faster speed is given by the equation $r=1200 \mathrm{~m}$.
a. Graph both equations in the same coordinate plane. What do the $r$-intercepts mean in this situation?
b. How many more revolutions in 3 minutes does the faster speed
 on the drill make than the slower speed?
28. Plumber A plumber charges $\$ 50$ to come to your house to diagnose a problem and then charges $\$ 30$ an hour for labor if you decide to have the plumber repair the problem. The total cost $C$ (in dollars) is given by the equation $C=50+30 t$ where $t$ is the time (in hours) the plumber takes to repair the problem.
a. Graph the equation.
b. Suppose the plumber raises the charge for labor to $\$ 32$ per hour so that the total cost for a repair that takes $t$ hours is given by the equation $C=50+32 t$. Graph the equation in the same coordinate plane as the equation in part (a).

c. How much more does it cost for a repair if it takes the plumber 3 hours to complete the job? What do you notice about the difference in the costs? Explain.

