$\qquad$ Date $\qquad$

## ${ }^{\text {LIsson }}$ Practice C <br> 4.5 <br> For use with pages 243-250

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. $-6 x-4 y=8$


## 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

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.

