## IEsson Practice A <br> 5.3 <br> For use with pages 302-308

Find the slope of the line that passes through the given points.

1. $(6,10),(4,1)$
2. $(-2,5),(7,12)$
3. $(-3,-3),(5,-2)$
4. $(3,9),(-2,6)$
5. $(-7,1),(-1,7)$
6. $(10,-2),(7,-2)$

Write an equation in point-slope form of the line that passes through the given point and has the given slope $\boldsymbol{m}$.
7. $(2,2) ; m=5$
8. $(7,3) ; m=-1$
9. $(0,-4) ; m=3$
10. $(-1,7) ; m=4$
11. $(-8,-5) ; m=6$
12. $(4,-9) ; m=2$

## Graph the equation.

13. $y-4=2(x-1)$

14. $y+4=1(x+2)$

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14. $y-1=3(x+2)$

17. $y-2=\frac{1}{2}(x-1)$

20. $y-1=-\frac{4}{3}(x-1)$

15. $y-5=-1(x-4)$

18. $y+1=-\frac{1}{3}(x-2)$

21. $y+6=-5 x$

$\qquad$

## Write an equation of the line shown.

22. 


23.

24.

25.

26.

27.


Write an equation of the line that passes through the given points.
28. $(0,0),(4,-12)$
29. $(4,1),(7,12)$
30. $(0,5),(3,0)$
31. $(3,-2),(-2,3)$
32. Hotel Rates You rent a hotel room for $\$ 45$ a night. The hotel adds a charge for using its parking lot to the total bill. After staying at the hotel for 3 nights, your total bill is $\$ 150$.
a. How much of your bill was for the parking fee?
b. Write an equation that gives your total bill (in dollars) as a function of the number of nights you stay in the room.
c. How much does it cost to stay at the hotel for 7 nights?
d. If your bill was $\$ 555$, how many nights did you stay at the hotel?
33. Organic Crops From 1997 to 2001, the number of certified organic growers in the United States increased by about 491.6 growers per year. In 2000, there were about 6515 certified organic growers.
a. Write an equation that gives the number of certified organic growers as a function of the number of years since 1997.
b. How many certified organic growers were there in 2001?

## Algebra 1

Chapter 5 Resource Book

