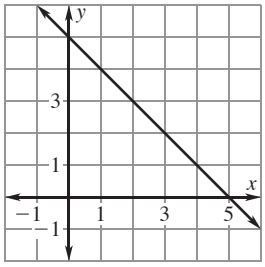
Name _____ Date _____

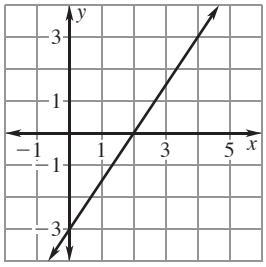
LESSON 3.3

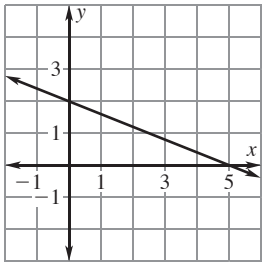
Practice A

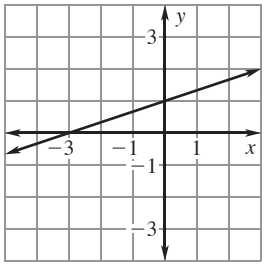
For use with the lesson "Graph Using Intercepts"

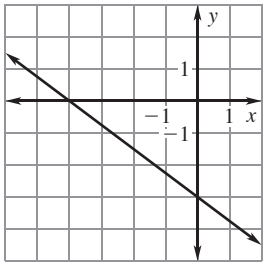
Identify the *x*-intercept and the *y*-intercept of the graph.

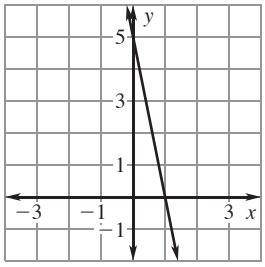
1. 

2. 

3. 

4. 

5. 

6. 

Find the *x*-intercept of the graph of the equation.

7. $x + y = 9$

8. $x - y = 4$

9. $x - y = -1$

10. $3x + y = 15$

11. $4y - x = 18$

12. $2x + 5y = 14$

13. $2x + 3y = 12$

14. $3y - 7x = 35$

15. $9x - 4y = 10$

Find the *y*-intercept of the graph of the equation.

16. $x + y = -7$

17. $x - y = 11$

18. $y - x = 2$

19. $x + 4y = 24$

20. $6x - y = 7$

21. $5x + 2y = 16$

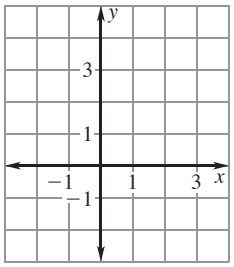
22. $4x + 5y = 20$

23. $9y - 8x = 27$

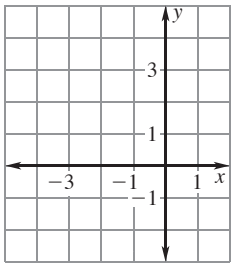
24. $3x - 5y = 15$

Draw the line that has the given intercepts.

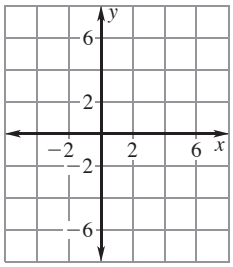
25. *x*-intercept: 2
y-intercept: 1



26. *x*-intercept: −4
y-intercept: 3



27. *x*-intercept: 3
y-intercept: −5



Name _____ Date _____

LESSON 3.3

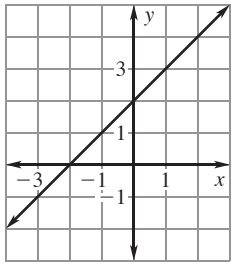
Practice A *continued*

For use with the lesson "Graph Using Intercepts"

Match the equation with its graph.

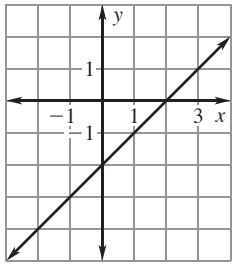
28. $x + y = 2$

A.



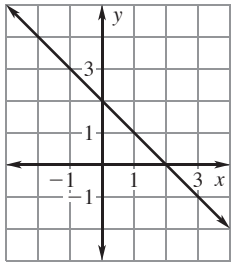
29. $x - y = 2$

B.



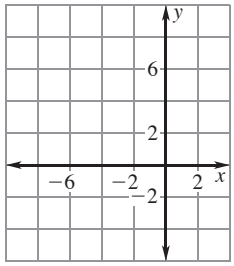
30. $y - x = 2$

C.

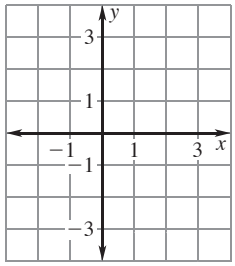


Graph the equation. Label the points where the line crosses the axes.

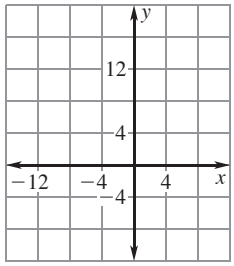
31. $y = x + 6$



32. $y = x - 3$



33. $y = 2x + 8$

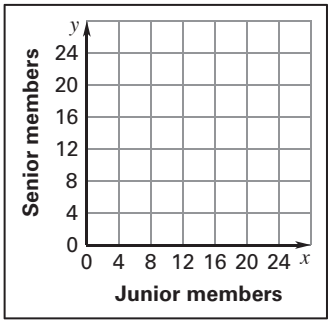


34. Club Membership The computer club at your school is open to juniors and seniors. There are now 24 members in the club. Let x be the number of junior members and let y be the number of senior members.

a. Write an equation for the total number of members in the club.

b. Find the intercepts of the equation.

c. Graph the equation.



35. Ticket Sales You sold tickets to the school play. Advance tickets were \$6. Tickets sold at the door were \$8. Total ticket sales were \$480. This situation can be represented by the equation $6x + 8y = 480$ where x is the number of advance tickets sold and y is the number of tickets sold at the door.

a. Find the intercepts of the graph of the equation.

b. Graph the equation.

c. If 52 advance tickets were sold, how many tickets were sold at the door?