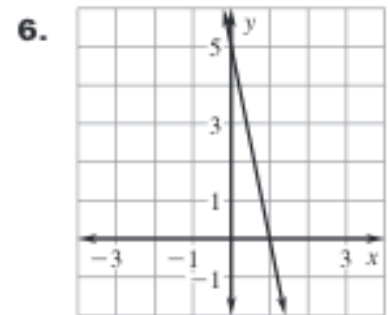
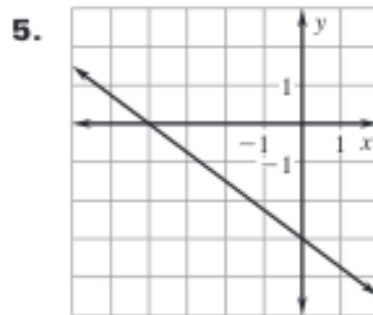
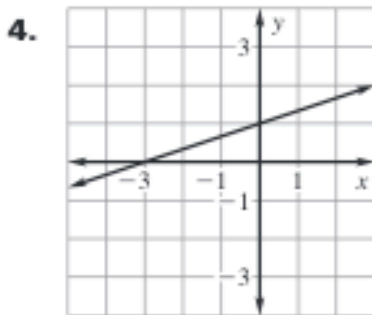
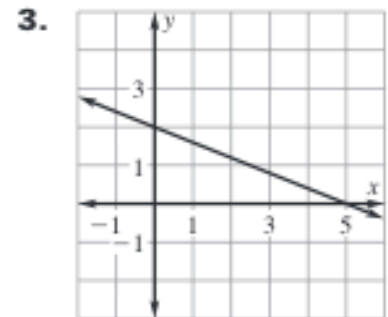
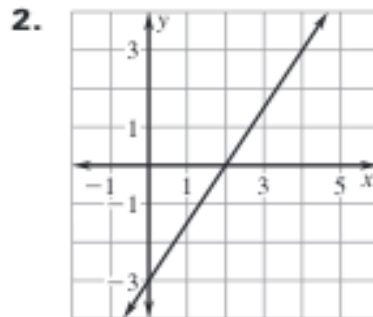
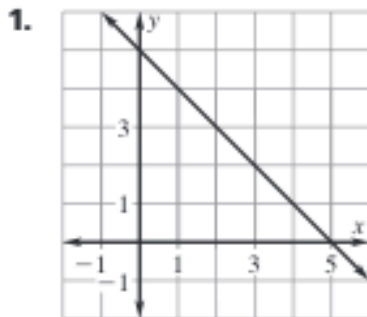


Algebra I

Worksheet 3.3

Name _____

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



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. $5x + 2y = 16$

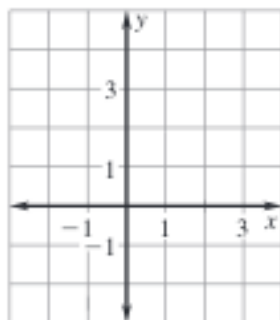
22. $4x + 5y = 20$

23. $9y - 8x = 27$

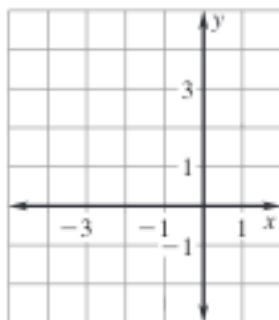
24. $3x - 5y = 15$

Draw the line that has the given intercepts.

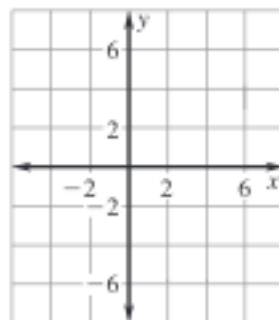
25. x -intercept: 2
 y -intercept: 1



26. x -intercept: -4
 y -intercept: 3



27. x -intercept: 3
 y -intercept: -5

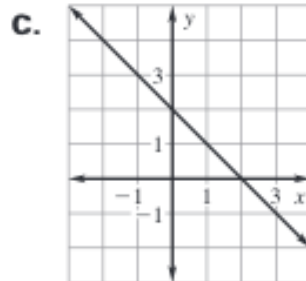
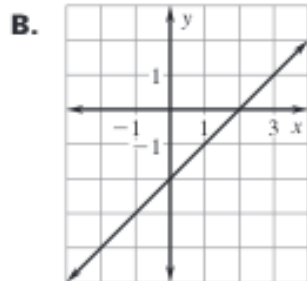
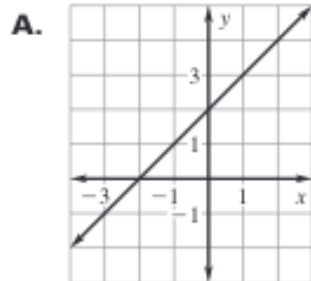


Match the equation with its graph.

28. $x + y = 2$

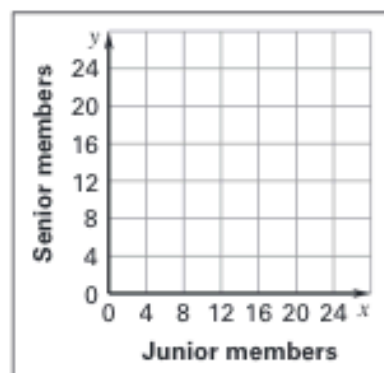
29. $x - y = 2$

30. $y - x = 2$



- 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.

- Write an equation for the total number of members in the club.
- Find the intercepts of the equation.
- 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.

- Find the intercepts of the graph of the equation.
- Graph the equation.
- If 52 advance tickets were sold, how many tickets were sold at the door?

