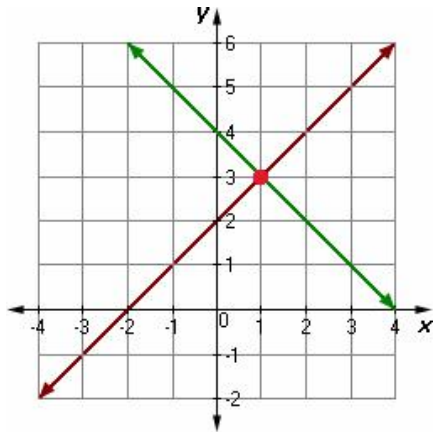


NAME : _____

CLASS : _____

DATE : _____

1.



What is the solution to the system?

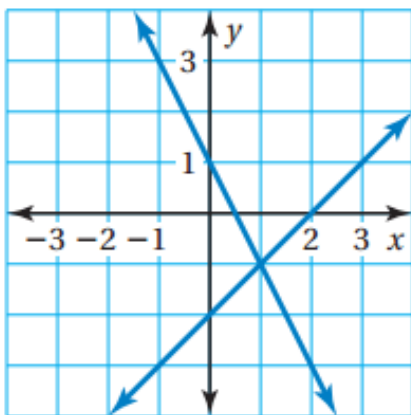
☐ a) (0, 3)

☐ b) (1, -1)

☐ c) (-3, 1)

☐ d) (1, 3)

2.



What is the solution?

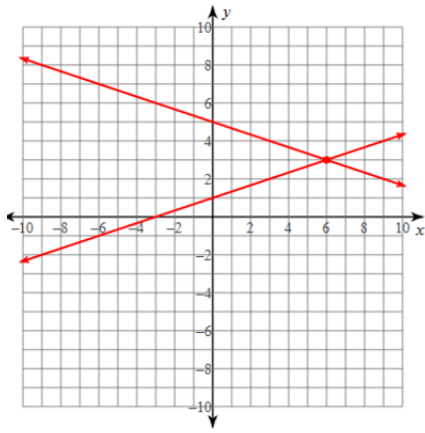
☐ a) 1

☐ b) -2

☐ c) (1, 2)

☐ d) (1, -1)

3.



What is the solution?

☐ a) $(6, 3)$

☐ b) $(3, 6)$

☐ c) $(-6, 3)$

☐ d) No solution

4. Christian had brochures printed for a new business venture. Christian originally ordered 4 boxes of black-and-white brochures and 3 boxes of color brochures, which cost a total of \$134. After those ran out, Christian spent \$120 on 3 boxes of black-and-white brochures and 3 boxes of color brochures. Which system represents this situation?

☐ a) $x+y=134$
 $x+y=120$

☐ b) $3x+3y=134$
 $4x+3y=120$

☐ c) $4x+3y=134$
 $3x+3y=120$

☐ d) $7xy=134$
 $6xy=120$

5. David is running a concession stand at a soccer game. He sells nachos and sodas. Nachos cost \$1.50 each and sodas cost \$0.50 each. At the end of the game, David made a total of \$78.50 and sold a total of 87 nachos and sodas combined. Which system of equations represents this situation?

☐ a) $1.5x+0.5y=78.5$
 $x+y=87$

☐ b) $1.5x+0.5y=78.5$
 $1.5x+0.5y=87$

☐ c) $x+y=78.5$
 $1.5x+0.5y=87$

☐ d) $x+y=78.5$
 $x+y=87$

6. If a system of equations has no solution, what does the **graph** look like?

☐ a) intersecting lines

☐ b) parallel lines

☐ c) skew lines

☐ d) intersecting lines

7. Does the system have one, none or infinite solutions?

$$8x + 4y = 12$$

$$y = -2x + 3$$

☐ a) (0,3)

☐ b) (3,0)

☐ c) No solution(parallel lines)

☐ d) Infinitely many solutions

8. A sporting goods store sells left handed (x) and right handed (y) gloves. In one month, 12 gloves were sold for a total of \$561. Right handed gloves cost \$45 each and left handed gloves cost \$52. Which system could be solved to determine the number of each type of glove sold?

☐ a) $x + y = 561$
 $45x + 52y = 12$

☐ b) $x + y = 12$
 $52x + 45y = 561$

☐ c) $x + y = 12$
 $45x + 52y = 561$

☐ d) $x + y = 561$
 $52x + 45y = 12$

9. 1. The cost of 5 squash and 2 zucchini is \$1.32. Three squash and 1 zucchini cost \$0.75. Write a system of equations.

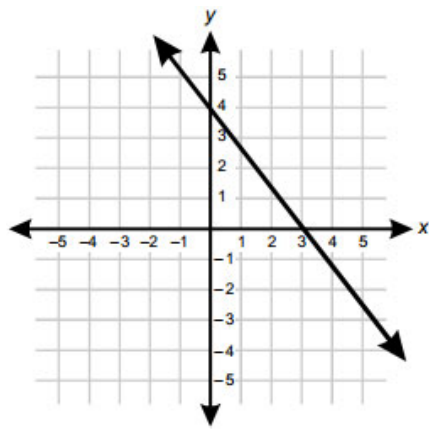
☐ a) $5q + 2z = 1.32$
 $1z = 0.75$

☐ b) $5q + 2z = 1.32$
 $3q + 1z = 0.75$

☐ c) $q + z = 1.32$
 $q + z = 0.75$

☐ d) $5q + 2z = 0.75$
 $3q + 1z = 1.32$

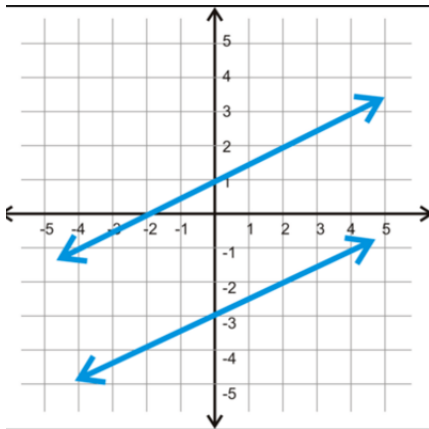
10.



When you graph the exact same equation twice,

- ☐ a) you will have no solution.
- ☐ b) you will have one solution.
- ☐ c) you will have infinite solutions.
- ☐ d) you will graph a giraffe.

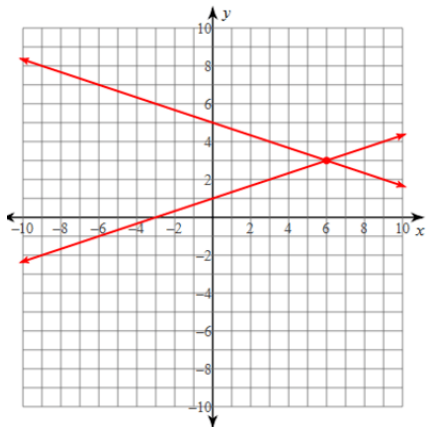
11.



How many solutions will this system have?

- ☐ a) No solution
- ☐ b) One Solution
- ☐ c) I Don't Know
- ☐ d) Infinitely Many Solutions

12.



What is the solution?

- ☐ a) (6, 3)
- ☐ b) (3, 6)
- ☐ c) (-6, 3)
- ☐ d) No solution

13.

Solve the following system by graphing. What is the solution?

$$y = -\frac{1}{4}x + 3$$

$$y = \frac{3}{4}x - 1$$

☐ a) (-4, 2)☐ b) (4, 2)☐ c) (2, -4)☐ d) (2, 4)

14.

Solve the following system by substitution. What is the solution?

$$x - 2y = -4$$

$$5x + 2y = -8$$

☐ a) (1, -2)☐ b) (-2, 1)☐ c) (-4, 1)☐ d) (2, 1)

15. Solve the system using any method.

$$-4x - 4y = 0$$

$$4x + 4y = 0$$

☐ a) (-6, -4)☐ b) Infinite number of solutions☐ c) No solutions☐ d) (6, 4)

16. Solve for x and y using any method we've learned!

$$y = 2x + 1$$

$$y = 4x - 1$$

☐ a) (1,3)☐ b) (-1,-3)☐ c) (-1,3)☐ d) (3,1)

17. Solve the system of equations below:

$$9x - 4y = 1$$

$$-3x + 8y = -47$$

☐ a) (3, -7)

☐ b) (-3, 7)

☐ c) (-3, -7)

☐ d) (-7, -3)

18. Solve by elimination:

$$3x + 7y = 23$$

$$-3x - 7y = -17$$

☐ a) No solution

☐ b) ARN

☐ c) (-3, 3)

☐ d) (3, 3)

19. Solve by elimination:

$$4x + 9y = 28$$

$$-4x - y = -28$$

☐ a) (-7, 0)

☐ b) (6, 0)

☐ c) (-6, 0)

☐ d) (7, 0)

20. Solve by graphing:

$$y = 5x + 3$$

$$y = -2x - 4$$

☐ a) (2, -1)

☐ b) (-1, -2)

☐ c) (1, -2)

☐ d) (-2, -1)

21. Solve by elimination:

$$9x - 4y = 7$$

$$x - 4y = -17$$

☐ a) (-1,5)

☐ b) (-7,5)

☐ c) (7,5)

☐ d) (3,5)

22. Solve by elimination:

$$7x - 9y = 29$$

$$7x + 2y = -15$$

☐ a) (-4,-1)

☐ b) (-1,-4)

☐ c) (-1,4)

☐ d) (-1,6)

23. What does the x represent in this situation?

Manny's Music Rental charges a fee of \$40 plus \$25 per month to rent a saxophone. Sid's Saxophones charges \$25 plus \$30 per month to rent the same saxophone.

$$y = 25x + 40$$

$$y = 30x + 25$$

☐ a) price of a saxophone

☐ b) rental fee

☐ c) total cost

☐ d) number of months

24. The solution of a system of linear equations is...

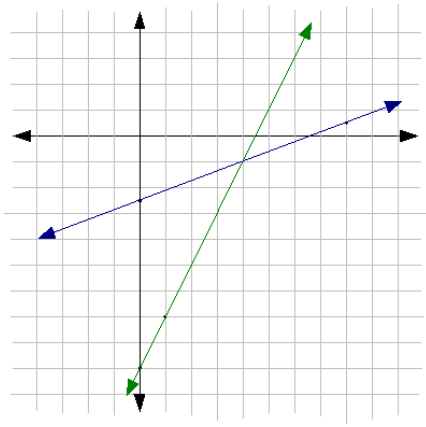
☐ a) the y-intercept (b)

☐ b) the intersection of the two equations on a graph

☐ c) the second equations' answers

☐ d) the slope (m)

25.



What is the solution to this system of equations?

☐ a) (4, -1)

☐ b) (-1, 4)

☐ c) (-4, 1)

☐ d) (-4, -1)

26. Solve the system of equations.

$$x + 2y = -3$$

$$x - y = -12$$

☐ a) (-9, 3)

☐ b) (-7, 5)

☐ c) (3, 15)

☐ d) (9, 6)

27. Solve the system of equations.

$$y = 4x + 1$$

$$3x + 2y = 13$$

☐ a) (1, 5)

☐ b) (5, 1)

☐ c) (0.25, 2)

☐ d) $\emptyset$

28. Solve for x and y

$$y = 2x + 1$$

$$y = 4x - 1$$

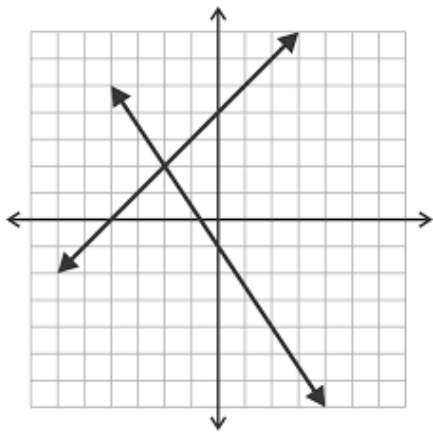
☐ a) (1, 3)

☐ b) (-1, -3)

☐ c) (-1, 3)

☐ d) (3, 1)

29.



What is the solution to this system?

☐ a) (-2, -2)

☐ b) (2, -2)

☐ c) (-2, 2)

☐ d) (2, 2)

30. Solve for x and y.

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

$$y = -x + 3$$

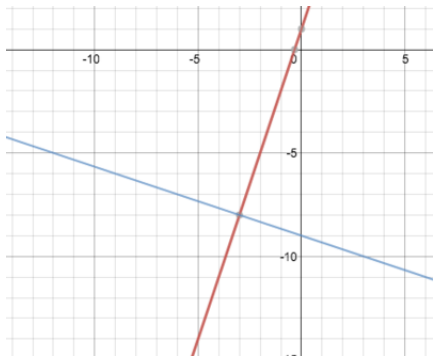
☐ a) (0, 3)

☐ b) (0, -3)

☐ c) (3, 0)

☐ d) (-3, 0)

31.



Steffen graphed two lines in order to find the solution to a given system of equations.

What is the solution?

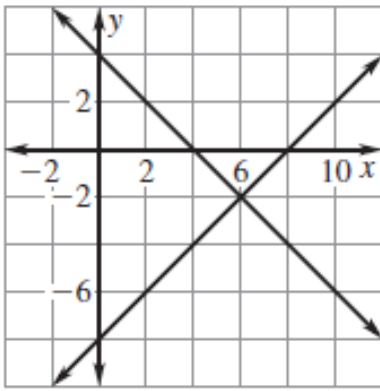
☐ a) (-3, -8)

☐ b) (-8, -3)

☐ c) (3, -8)

☐ d) (8, 3)

32.



What is the solution to the system?

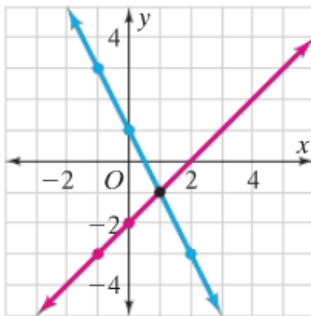
☐ a) (3, -1)

☐ b) (2, -6)

☐ c) No Solution

☐ d) (6, -2)

33.



What is the solution?

☐ a) (1, -1)

☐ b) (-1, 1)

☐ c) (0, -2)

☐ d) (0, 1)

34. Solve the system of equations by elimination.

$$-x + y = -13$$

$$-8x - 4y = -8$$

☐ a) (5, 8)

☐ b) (5, -8)

☐ c) (-5, -18)

☐ d) (-5, 8)

35. Determine if (4, 1) is a solution for the system of equations.

$$y = -x + 5$$

$$y = 2x - 7$$

☐ a) yes

☐ b) no

36. Alexandra finds that she can give 3 haircuts and 2 hair dyes in 315 minutes. Giving 2 haircuts and 4 hair dyes takes 450 minutes. Which system of equations represents the situation?

☐ a) $3x + 2y = 315$
 $2x + 4y = 450$

☐ b) $3x + 2y = 450$
 $2x + 4y = 315$

☐ c) $2x + 2y = 315$
 $3x + 4y = 450$

37. Alexandra finds that she can give 3 haircuts and 2 hair dyes in 315 minutes. Giving 2 haircuts and 4 hair dyes takes 450 minutes. How long does it take her to do a haircut?

$$3x + 2y = 315$$

$$2x + 4y = 450$$

☐ a) 45 minutes

☐ b) 90 minutes
 $2x + 4y = 315$

☐ c) 60 minutes
 $3x + 4y = 450$

☐ d) 30 minutes

38. Some students want to order shirts with their school logo. One company charges \$9.65 per shirt plus a setup fee of \$43.

Another company charges \$8.40 per shirt plus a \$58 fee.

Which equation represents the number of shirts when both companies charge the same amount?

☐ a) $y = 9.65 + x$
 $y = 8.40 + x$

☐ b) $y = 9.65x + 43$
 $y = 8.40x + 58$

☐ c) $y = 9.65x$
 $y = 8.40x$

☐ d) $y = 9.65x - 43$
 $y = 8.40x - 58$

39. Solve for x and y

$$3x + 2y = 16$$

$$7x + y = 19$$

☐ a) (-2,5)

☐ b) (-2,-5)

☐ c) (2,-5)

☐ d) (2,5)

40. There are 50 donkeys and chickens on a farm. There are a total of 174 legs. Which system below can be used to figure out how many of each animal the farm has?

☐ a) $d + c = 174$

$$4d + 2c = 50$$

☐ b) $d + c = 50$

$$4d + 2c = 174$$

☐ c) $d + c = 50$

$$2d + 4c = 174$$

☐ d) $d + c = 174$

$$2d + 4c = 50$$

41. The equations of two lines are:

$$2x - y = 4 \text{ and } y = -2x + 8.$$

What is the value of x in the solution for this system?

☐ a) $x = 8$

☐ b) $x = 3$

☐ c) $x = 11$

☐ d) $x = 5$

42. What is the value of the y -coordinate of the solution to the system of equations

$$x - 2y = 1$$

$$x + 4y = 7$$

☐ a) 1

☐ b) -1

☐ c) 3

☐ d) 4

43. Solve using substitution.

$$x - 2y = 2$$

$$3x + 4y = 3$$

☐ a) (1.4, -0.3)

☐ b) (3.1, 5)

☐ c) (-2.5, 3.5)

☐ d) (6.9, 1.02)

44. $y = -6x + 5$

$$-2x + y = 5$$

☐ a) (-3, -6)

☐ b) (-6, 3)

☐ c) (0, 5)

☐ d) (-3, 5)

45. A system of linear equations is...

☐ a) Math Magic

☐ b) One Equation

☐ c) Always more than 2 equations

☐ d) A set of 2 or more equations