



Combining Like Terms

10 Questions

NAME : _____

CLASS : _____

DATE : _____

1. Simplify by combining like terms:

$$5a + 2b - 3a + 4$$

a) $8a + 2b + 4$

b) $2a + 2b + 4$

c) $8ab$

d) $4ab + 4$

2. Simplify by combining like terms:

$$4x^2 - 3x + 11 - 2x$$

a) $4x^2 - 5x + 11$

b) $11x + 11$

c) $16x^2 - 5x + 11$

d) $10x^2$

3. Simplify the expression: $7v + 2 + 12 + 2v$

a) 23

b) $23v$

c) $9 + 14v$

d) $9v + 14$

4. Combine like terms

$$3x + 2x + 3y - 7y$$

a) $5x + 10y$

b) $5x + 4y$

c) $5x - 4y$

d) $5x - 10y$

5. Simplify the following expression:

$$-10x + 15 - 3x + 2$$

a) $13x^2 + 17$

b) $-13x^2 + 13$

c) $-13x + 17$

d) $-7x + 17$

6. $n - 10 + 9n - 3 =$

a) -3

b) $9n - 3$

c) n

d) $10n - 13$

7. $2r + 2 + 5r - 2 + r$

a) 8r

b) $8r - 4$

c) 12r

d) $7r + 4 + r$

8. Simplify the following expression:

$$-9(14p - 8) - 4p$$

a) $130p - 72$

b) $122p - 72$

c) $-130p - 18$

d) $-130p + 72$

9. Simplify the following expression:

$$-6x + 4(-x - 3)$$

a) $-2x - 12$

b) $10x + 12$

c) $-10x - 12$

d) $-2x + 12$

10. Simplify the following expression:

$$-7x + 5(1 - 8x)$$

a) $-33x + 5$

b) $5 + 33x$

c) $47x + 5$

d) $5 - 47x$



EOC Functions Quiz 1

20 Questions

NAME : _____

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1.

INPUT (X)	OUTPUT (Y)
24	30
29	35
32	38
36	?
40	?

Which list of numbers completes the table?

a) 41,46

b) 42,46

c) 42,45

d) 44,48

2.

INPUT	OUTPUT
4	36
?	63
9	81
13	117
16	144
17	153

What is the missing input in the following table?

a) 8

b) 6

c) 7

d) 16

3.

X	Y
-3	1
0	-5
4	7
-3	0

Is this table a function or not a function?

a) Function

b) Not a Function

4.

x	1	2	3	2
y	1	4	9	-4

Does the table represent a function?

- a) Yes, there is a repeated x-value.
- b) No, there aren't any repeated y-values.
- c) Yes, there are repeated y-values.
- d) No, there is a repeated x-value.

5.

x	y
-3	2
-2	4
0	6
5	8

Which ordered pair below would prevent this table from being a function?

- a) (10, 10)
- b) (2, 4)
- c) (6, 1)
- d) (-2, 0)

6.

x	y
10	32
11	35
12	38
13	
14	44
15	47

What value would make this table a function?

- a) 41
- b) 3
- c) 40
- d) -3

7.

w	k
-15	41
5.5	-24
67.5	<input type="text"/>
<input type="text"/>	-37

What value for w would make this table NOT a function? Select all that apply.

 a) -15 b) 95 c) 113.5 d) 5.5

8. Which set of values is a function?

 a) (9,5) (10,5) (9,-5) (10,-5) b) (3,4) (4,-3) (7,4) (3, 8) c) (6,-5) (7, -3) (8, -1) (9, 1) d) (2, -2) (5, 9) (5, -7) (1, 4)

9. The set of all x-values of a function.

 a) Domain b) Range c) x-axis d) y-axis

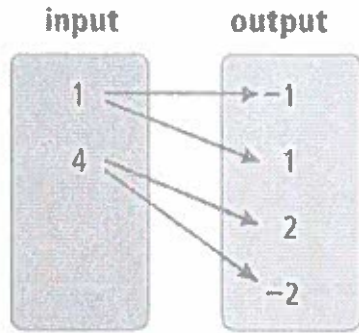
10.

x	y
0	5
1	6
2	7
3	8
4	9

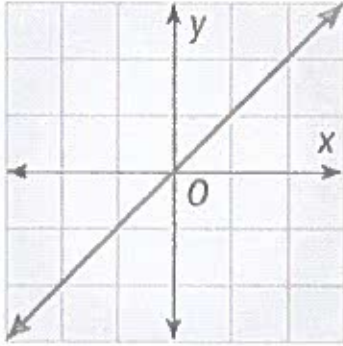
What are the independent quantities in the table?

 a) {5,6,7,8,9} b) {0,1,2,3,4} c) x d) y

11.

 a) Function b) Not a Function

12.

 a) Function b) Not a Function

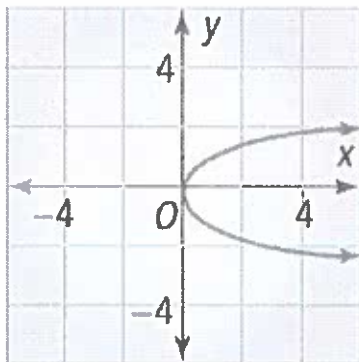
13. All of the y values or outputs are called what?

 a) Domain b) Range c) Relation d) Function

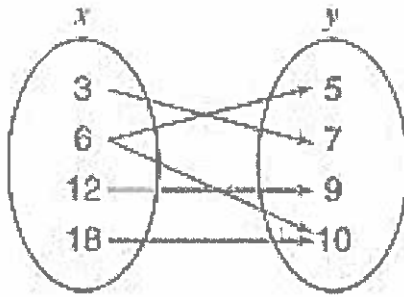
14. What is the definition of function?

 a) Has inputs and outputs b) Every input has only ONE output c) Inputs have different outputs every time d) x-values and y-values

15.

 a) Function b) Not a Function

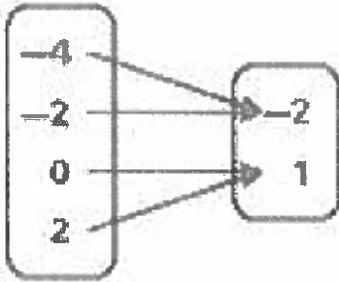
16.



Is this mapping a function or not a function?

 a) Function b) Not a Function

17.



Give the domain and range. Tell if it is a function.

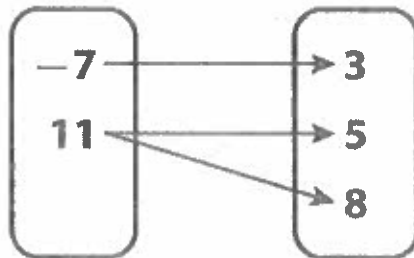
a) D: $\{-4, -2, 0, 2\}$
R: $\{-2, -2, 1, 1\}$
Function

b) D: $\{-4, -2, 0, 2\}$
R: $\{-2, 1\}$
Function

c) D: $\{-4, -2, 0, 2\}$
R: $\{-2, -2, 1, 1\}$
Not a Function

d) D: $\{-4, -2, 0, 2\}$
R: $\{-2, 1\}$
Not a Function

18.



Is the relation a function? Why.

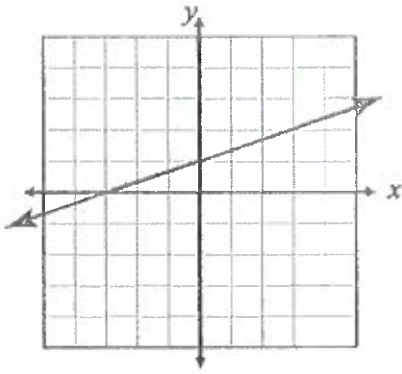
a) Yes, because the x-value 11 has two y-values pair with it.

b) Yes, because each x-value has only one y-value paired with it.

c) No, because the x-value 11 has two y-values pair with it.

d) No, because each x-value has only one y-value paired with it.

19.



Is this graph a function or not a function?

 a) Function b) Not a Function

20.

x	1	2	3	2
y	1	4	9	-4

Does the table represent a function?

 a) Yes, there is a repeated x-value. b) No, there aren't any repeated y-values. c) Yes, there are repeated y-values. d) No, there is a repeated x-value.

**EOC Equations Quiz #2**

20 Questions

NAME : _____

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1. $-22 + x = -42$

 a) 64 b) -64 c) 20 d) -20

2. $-15x = -255$

 a) 17 b) -17 c) -240 d) -270

3. $3f - 12 = -3$

 a) 3 b) -3 c) 11 d) 12

4. $8 = 4v + 12$

 a) -1 b) 1 c) 0 d) -10

5. $7(9 + K) = 84k =$ _____

 a) 3 b) -3 c) 5 d) 8

6. Solve. $5n - 4 = 21$

 a) 10 b) -5 c) 5 d) 2

7. Solve. $-2n - 4 = 32$

 a) 18 b) 0 c) 16 d) -18

8. $8v - 4(v + 8) = 8$

 a) 2 b) 10 c) 4 d) -4

9. $2x - 3 + 4x = 27$

 a) 12 b) 4 c) 5 d) 15

10.

Solve for a:
 $46 + 9a = -5a + 74$

 a) 4 b) 2 c) -2 d) -4

11.

Solve for c:
 $21 + 3c = -4c + 28$

 a) 1 b) 0 c) 2 d) 7

12. $12 + 5w - 4w = 15$

 a) $w=1$ b) $w=3$ c) $w=5$ d) $w=4$

13.

Solve for b:
 $-47 + 3b = 7 - 3b$

 a) 9 b) 3 c) 6 d) 0

14. The local service center advertises that it charges a flat fee of \$50 plus \$8 per mile to tow a vehicle. Write an equation that represents the total cost (C) of a service for m miles of towing.

 a) $y = 8x + 50$ b) $C = 50m + 8$ c) $y = 50x + 8$ d) $C = 8m + 50$

15. Your four-month bill for the gym comes to \$221. That includes the cost per month of \$50 plus the one-time membership fee. How much is the membership fee?
- a) \$21 b) \$171
 c) \$4.42 d) \$15.50
16. Derrick started up a charity for the local animal shelters. He started selling handmade dog leashes for \$5. It cost him \$120 to get the supplies to make the leashes. Write an equation for the amount of money he raises, A , if he sells x amount of leashes.
- a) $A = 120 + 5x$ b) $A = 120x + 5$
 c) $A = -120 + 5x$ d) $A = 120 - 5x$
17. A fitness club opens with 80 members. Each month the membership increases by 15 members. Which equation represents the relationship between the number of months the club has been opened, x , and the total fitness club membership, y ?
- a) $y=15x$ b) $y=15x+80$
 c) $y=x+15$ d) $y=80x+15$
18. An airplane 30,000 feet above the ground begins descending at a rate of 2,000 feet per minute. Use your equation to find the altitude of the plane after 5 minutes.
- a) 20,000 feet after 5 minutes b) 40,000 feet after 5 minutes
 c) 148,000 feet after 5 minutes
19. In order to join a dancing club, there is a \$30 startup fee and a \$4 monthly fee. Write an equation in slope-intercept form that models this situation. After how many months will the total cost be \$58?
- a) 7 months b) 6 months
 c) 5 months d) 4 months
20. Talk time Phone Company charges \$0.12 per minute of phone use plus a monthly service fee of \$8.00 for its phone service. How many minutes were used if the monthly bill was \$188?
- a) 188 b) 1500
 c) 2777 d) 7000



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DATE : _____

EOC Writing Linear Equations #3

20 Questions

1. A cell phone company charges \$3.00 to make a phone call plus \$0.15 for each minute for each minute you talk. Which equation would you use to determine the total cost, c , of a phone call that is m number of minutes long?
- a) $c = 3.00 - 0.15m$ b) $c = 0.15 + 3.00m$
- c) $3.00 = c + 0.15$ d) $c = 3.00 + 0.15m$
2. Samuel bought 3 tires for \$79.95 each and some rims for \$59 each. He spent a total of \$534.85. Which equation could be used to find the number of rims, r , Samuel bought?
- a) $3(79.95) - 59r = 534.85$ b) $79.95r - 59(3) = 534.85$
- c) $3(79.95) + 59r = 534.85$ d) $79.95r + 59(3) = 534.85$
3. Julie bought 5 pairs of shoes and 4 blouses. The shoes were priced at \$19 per pair and the blouses cost \$16.50 each. Which equation can be used to find the total cost, t , she spent on the shoes and blouses?
- a) $5(16.50) + 4(19) = t$ b) $5(16.50) - 4(19) = t$
- c) $4(16.50) + 5(19) = t$ d) $4(16.50) - 5(19) = t$
4. The space club is having some posters printed. The printer charges \$250 plus \$2 per poster. How can I figure out how many posters I could print for \$1,000?
- a) $250x + 2 = 1000$ b) $1000 + 2x = 250$
- c) $250 - 2x = 1000$ d) $2x + 250 = 1000$
5. Jim paid a gym membership fee of \$50, plus \$20 per month. Jim has paid a total of \$290 to the gym. How many months has Jim been a member of the gym?
- a) $50 + 20m = 290$ b) $20 + 50m = 290$
- c) $50 + 20 = m$ d) $50m - 20 = 290$

6. While at the music store, Drew bought 5 CDs, all at the same price. The tax on his purchase was \$6, and the total was \$61. What was the price of each CD?

a) $5x + 6 = 61$ b) $x/5 + 6 = 61$
 c) $5/x + 6 = 61$ d) $x + 5 + 6 = 61$

7. A computer printer can print 10 pages per minute. There were already 35 pages in the tray. The total pages printed was 115 pages. Write an expression for the number of pages the printer can print in m minutes.

a) $10m + 35 = 115$ b) $10m + 115 = 35$
 c) $115m + 35 = 10$ d) $35m + 10 = 115$

8. Scott works on cars. He charges \$35 for each car plus \$7 per hour. Write an equation that represents this scenario if Kylie's car bill was \$63.

a) $7x + 35 = 63$ b) $7x = 63$
 c) $7x + 63 = 35$ d) $35x + 7 = 63$

9. An electrician charges \$90 per hour plus a \$50 travelling fee. It costs \$1000 in total.

a) $1000 = 50x + 90$ b) $1000 = 90x + 50$
 c) $90 = 1000 + 50x$ d) $90x = 1000 + 50$
 e) $50 = 90x + 1000$

10. Harris Publications is having some books printed. The printer charges \$800 plus \$5 per book. What equation could help me find how many books can be printed for \$4,000?

a) $800 + 5x = 4000$ b) $800x + 5 = 4000$
 c) $4000 + 5x = 800$ d) $800 + 5 = 4000$
 e) $4000 = 800 + 5$

11. Speedy Boat Rental charges a \$15 deposit fee plus \$2 for each hour of use to rent a paddle boat. Write an equation to find out how many hours, h , they rented the Boat if the total cost was \$33.

a) $h = 2(9) + 15$ b) $33 = 15h + 2$
 c) $h = 15(9) + 2$ d) $33 = 2h + 15$

12. At Joe's Clown Car Rental Agency, renting a car costs \$35 plus \$0.75 for every mile it is driven. What is an equation that can be used to find the number of miles, m , a vehicle was driven, if the total rental charge was \$222.50?
- a) $222.5 = m(35 + 0.75)$ b) $222.5 = 35 + 0.75m$
- c) $222.5 = 0.75 + 35m$ d) $222.5 = 0.75(m + 35)$
13. The Roaming Cell Phone Company charges \$15.00 per month plus \$0.20 per minute of airtime usage. If Juanita uses x minutes of airtime, what is an equation that can be used to determine her monthly cell phone bill (C)?
- a) $C = 15 + 0.20x$ b) $C = 15(0.20x)$
- c) $C = 15 + x + 0.20$ d) $C = 0.20 + 15x$
14. Lisa went to the mall to do her back-to-school shopping. When she returned, she noticed that the number of shirts (s) she purchased was 3 more than twice the number of pants (p) she bought. What is an equation that can be used to represent the number of shirts Lisa purchased?
- a) $p = 3 + 2s$ b) $s + 2p = 3$
- c) $s = 3 + 2p$ d) $2p = s + 3$
15. Dexter's Gym charges a one-time registration fee of \$40 and \$20 each month. The total fee after x months is \$340. Which equation models this situation?
- a) $40x + 20 = 340$ b) $20x + 40 = 340$
- c) $20x - 40 = 340$ d) $20 + 340 = 40x$
16. A holiday meal cost \$12.50 a person plus a delivery fee of \$30. Which equation represents the amount a holiday meal costs (y), including delivery, for x people?
- a) $y = 12.50 + 30x$ b) $y = 30 + 12.50x$
- c) $y = 12.50 + 30$ d) $12.50x = 30$
17. You and your friends go to the movies and purchase some popcorn and Pepsi. Popcorn is sold for \$4.99 per bag and Pepsi is sold for \$1.99 per bottle. You each chip in to pay \$24.92. Write an equation to represent the given situation.
- a) $y = 1.99x + 4.99$ b) $y = 4.99x + 24.92$
- c) $y - 1.99 = 4.99(x - 24.92)$ d) $1.99x + 4.99y = 24.92$

18. Suppose that the water level of a river is 34 feet and that it is receding at a rate of 0.5 foot per day. Write an equation to represent the given situation.

a) $y = -0.5x + 34$

b) $y = -34x + 0.5$

c) $y - 34 = 0.5(x - 1)$

d) $34x - 0.5y = 33.5$

19. 1) A car is driving down from the top of a Colorado mountain. The elevation at the top of the mountain is 13,500 feet. Every minute of driving, the car's elevation decreases by 150 feet. Write an equation to represent the given situation.

a) $y = 150x + 13,500$

b) $y = -150x + 13,500$

c) $y - 13,500 = -(x - 150)$

d) $150x + 13,500y = 13,750$

20. The Joyner's swimming pool currently has 30 inches of water in it. In the spring, Mr. Joyner will refill the swimming pool by adding water at a rate of 2 inches per hour. Write an equation to represent the given situation.

a) $y = -2x + 30$

b) $y = 2x + 30$

c) $y - 30 = 2(x - 0)$

d) $-2x + 30y = 28$



EOC Systems of Equations #4

20 Questions

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1. Solve this system. $y = 2x - 4$ and $x = y + 1$

- a) (-2, 3) b) (2, 3)
- c) (3, 2) d) (-3, 2)

2. Solve this system. $2x - y = 15$ and $3x = 2y$

Determine the x coordinate of the point of intersection.

- a) $x = -1$ b) $x = 2$
- c) $x = 1$ d) $x = 5$

3. Solve the following System.

$2x - y = 15$ and $3x = -y$ Determine the y- coordinate of the point of intersection.

- a) $y = y$ b) $y = -4$
- c) $y = 7$ d) $y = -7$

4. Is (3, -1) a solution of this system?

$$y = 2 - x \quad 3 - 2y = 2x$$

Pick two answer choices.

- a) Yes, this answer satisfies the system!
- b) No, this answer does not satisfy the system.
- c) NO, this answer is not a point of intersection.
- d) Yes, this answer is a point of intersection.

5. Solve this system.

$$-3x - y = 10 \quad 3x + y = -8$$

Pick all the answers that apply.

- a) This system has an infinite number of solutions.
- b) This systems has no solutions.
- c) The lines are perpendicular.
- d) The lines are parallel.
- e) The solution is (0, 2).

6. Solve this system.

$$x - 3y = 6 - x + 3y = -6$$

Pick as many answers as apply.

- a) The solution is (0, 0)
- b) This system has an infinite number of solutions.
- c) The two lines are the same.
- d) The lines are perpendicular.
- e) There are no solutions to this system.

7. $-4x - 6y = 6$

$$4x + 6y = -4$$

- a) no solution
- b) (2,0)
- c) (-4,0)
- d) (0,0)

8. $-4x - 4y = 0$

$$4x + 4y = 0$$

- a) (-6, -4)
- b) Infinite number of solutions
- c) (-6, 10)
- d) (6, 4)

9. Does the following system have One Solution, No Solution, or Infinite Solutions.

$$y = 4x + 8$$

$$y = -5x + 3$$

- a) One solution
- b) No solution
- c) Infinite solution

10. Intersecting lines have how many solutions?

- a) One solution
- b) No solutions
- c) Infinite solutions

11. 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

12. Solve for x and y

$$3x + 2y = 16$$

$$7x + y = 19$$

a) (-2,5)

b) (-2,-5)

c) (2,-5)

d) (2,5)

13. Solve for x and y

$$y = 2x + 1$$

$$y = 4x - 1$$

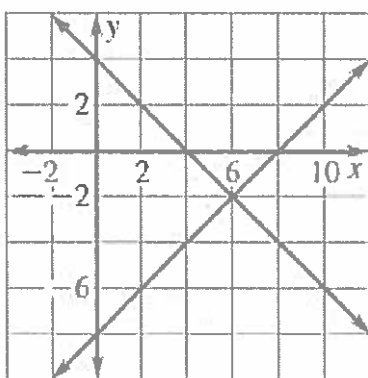
a) (1,3)

b) (-1,-3)

c) (-1,3)

d) (3,1)

14.



What is the solution to the system?

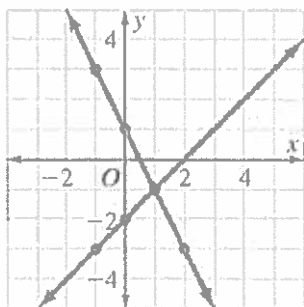
a) (3, -1)

b) (2, -6)

c) No Solution

d) (6, -2)

15.



What is the solution?

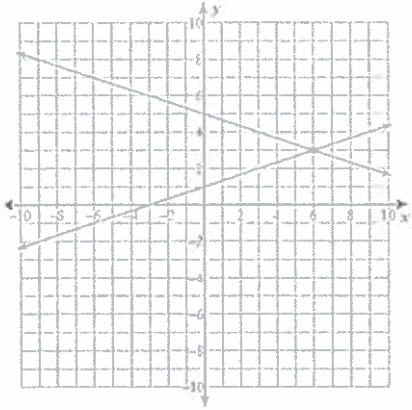
a) (1, -1)

b) (-1, 1)

c) (0, -2)

d) (0, 1)

16.



What is the solution?

a) (6, 3)

b) (3, 6)

c) (-6, 3)

d) No solution

17.

$$x + y = 4$$

$$y = 1$$

What is the solution to the system of equations?

a) (-1, -3)

b) (3, 1)

c) (1, 3)

d) (-3, -1)

18.

$$-5x + 2y = 6$$

$$-x + 2y = -2$$

What is the solution to the system of equations?

a) (2, -2)

b) (2, 2)

c) No Solution

d) (-2, -2)

19.

$$-x + 3y = 6$$

$$4x + 3y = -9$$

What is the solution to the system of equations?

a) (-3, 1)

b) (1, -3)

c) (3, -1)

d) (-1, 3)

20.

$$x + 3y = 1$$

$$-3x - 3y = -15$$

What is the solution to the system of equations?

 a) No Solution c) (7, -2) b) Infinitely Many Solutions d) (-5, -5)



Weekly Quizizz Systems of Inequalities #5

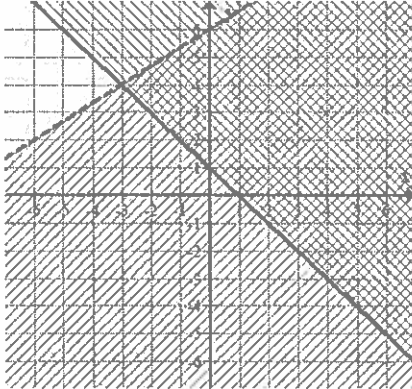
15 Questions

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1.



Which point is a solution?

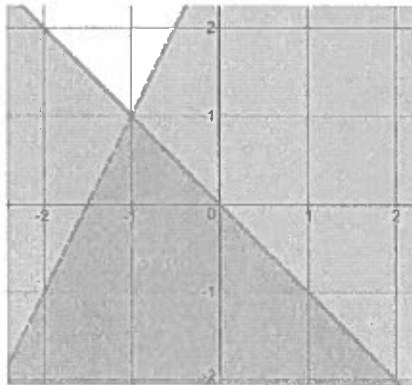
a) (0, 6)

b) (-3, 5)

c) (1, 0)

d) (-4, 3)

2.

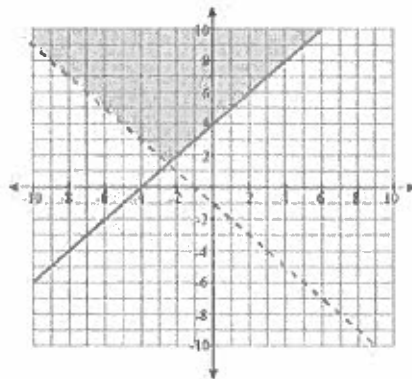


Is (0,0) a solution to the system?

a) Solution

b) Not a solution

3.

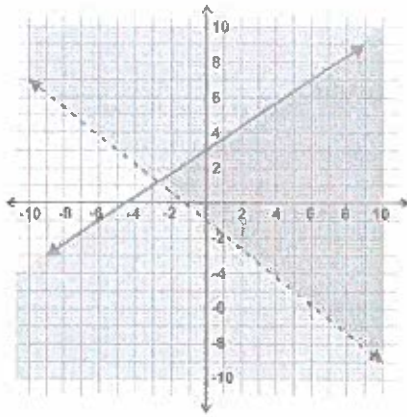


Is (-2,4) a solution to the system?

a) Solution

b) Not a solution

4.



Which of the following is not a solution to this system of inequalities?

- a) (0,-1)
- b) (0,3)
- c) (4,0)
- d) (6,-2)

5. Which of the following points is a solution to the system of equations below?

$$x + 2y \geq 4$$

$$3x - 2y < 4$$

Take your time!

- a) (0, 0)
- b) (2, 1)
- c) (2, 2)
- d) (-1, 1)

6. When you graph the system:

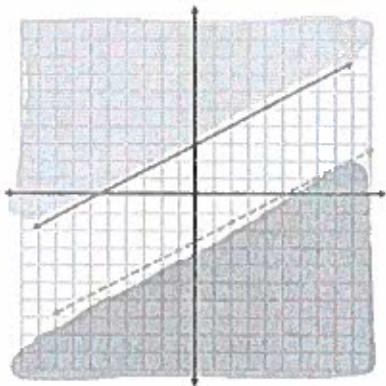
$$y > -2x + 1$$

$$y \leq x + 3$$

Which of the following is a solution?

- a) (2, 0)
- b) (-1, 2)
- c) (0, 4)
- d) (0, -4)

7.



Given the system, determine a solution.

- a) No solution
- b) Infinite solutions
- c) (-5, 5)
- d) (5, -5)

8. Graph:

$$y \leq -2x + 5$$

$$y > 2x + 7$$

Which of the following is NOT a solution?

a) (-4, 2)

b) (-10, 7)

c) (-3, 0)

d) (-2, 6)

9. Is (5, 2) a solution to the system?

$$2x + 4y < 20$$

$$3x - 2y > 11$$

a) Yes

b) No

c) Sometimes

10. Is (3, -2) a solution to the system?

$$2x + 2y \geq -9$$

$$x - y < 6$$

a) Yes

b) No

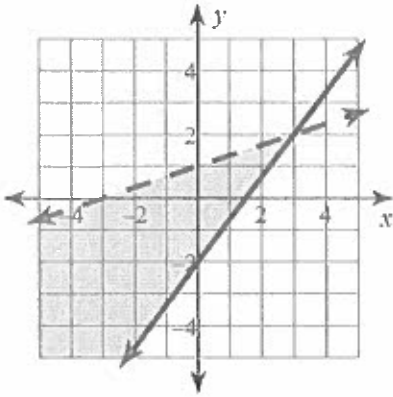
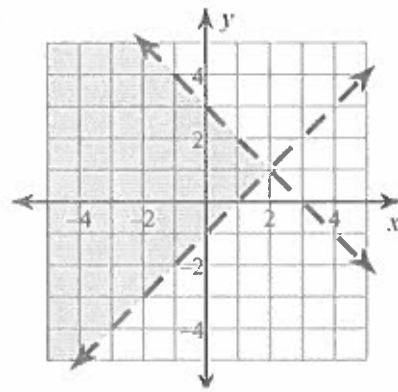
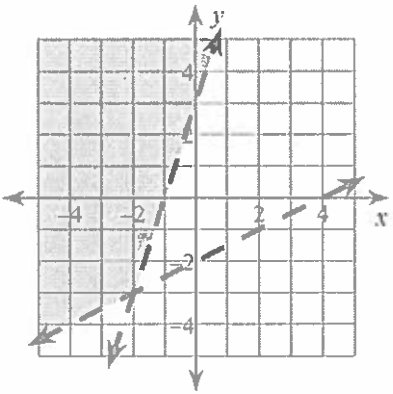
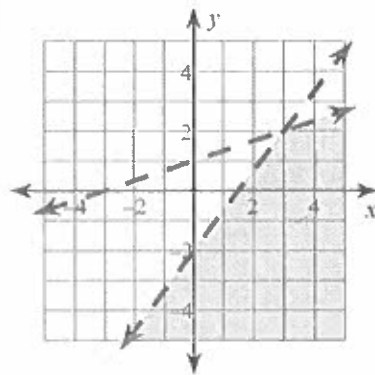
c) Sometimes

11.

$$y < -x + 3$$

$$y > x - 1$$

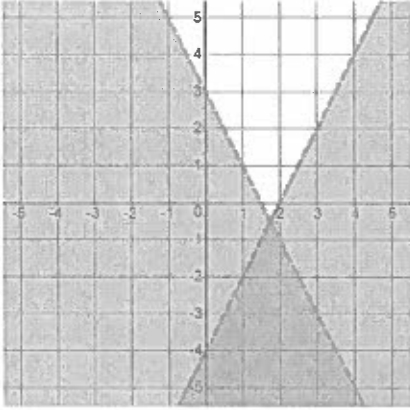
Solve the system of inequalities by graphing.

 a) b) c) d)

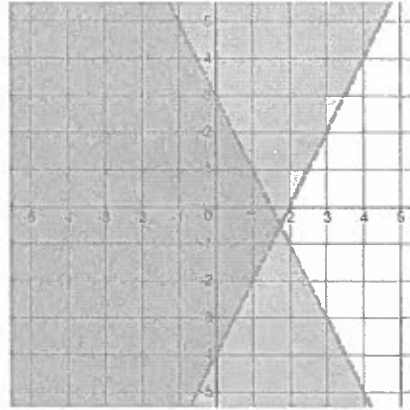
12. Identify the graph represented by the following system of inequalities. $2x$

$$-y > 44x + 2y < 6$$

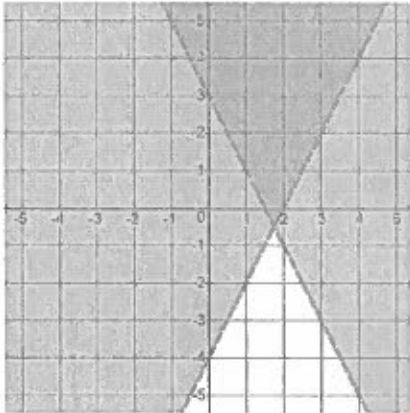
a)



b)



c)



13. An inequality using a $>$ or a $<$ has a _____ line

a) invisible

b) solid

c) dashed

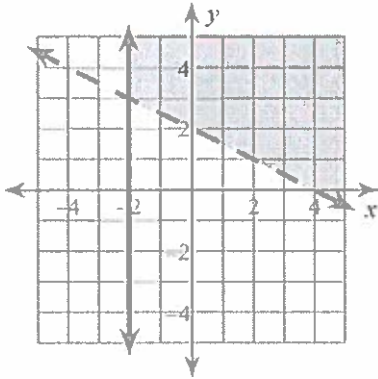
14.

Solve the system of inequalities by graphing.

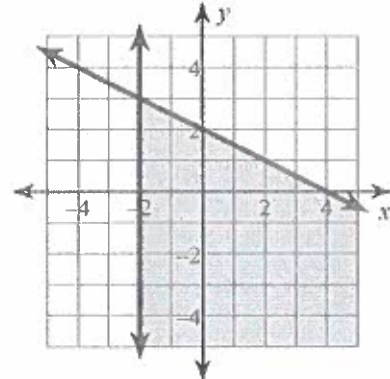
$$y \geq \frac{1}{2}x + 2$$

$$y \geq -2x - 3$$

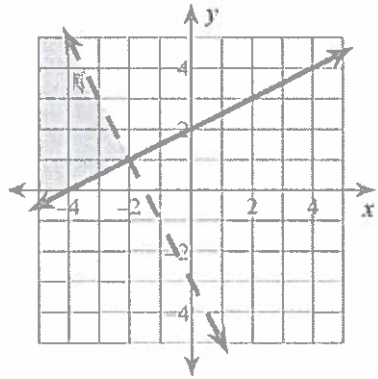
a)



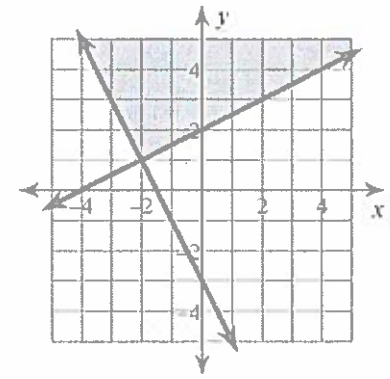
b)



c)



d)



15. When you graph an inequality, you used a solid line when you use which symbols?

a) \leq, \geq

b) $<, >$