Date: _____

1. Solve the following system of equations for x:

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

2. Solve the following system of equations algebraically and check:

$$x - 4y = 16$$
$$y = 1 - x$$

3. Solve the following system of equations for x:

$$3x + y = 9$$
$$2x - y = 6$$

4. Solve the following system of equations algebraically and check:

$$3x + 2y = 6$$
$$5x - 3y = -28$$

5. Solve the following systems of equations for x:

$$2x + 3y = 5$$
$$4x - 3y = 1$$

6. Solve the following system of equations graphically and check:

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

7. Solve the following system of equations algebraically and check:

$$x - \frac{1}{2}y = 4$$
$$x + y = 7$$

8. What is the solution for the following system of equations?

$$2x + y = 7$$
$$x - 2y = 6$$

- A. (3, 1)
- B. (1, 3)
- C. (-1,4)
- D. (4, -1)
- 9. Which ordered pair is the solution to this system of equations?

$$y = x + 4$$
$$x + y = 2$$

- A. (1,5)
- B. (0, 2)
- C. (-1,3)
- D. (-4,0)
- 10. What is the solution for the following system of equations?

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

- A. (-2, 2)
- B. (2, -2)
- C. (6, -6)
- D. (-6, 6)

11. Solve the following system of equations for y:

$$2x + y = 12$$
$$-2x + 3y = -4$$

12. Which ordered pair is the solution set for this system of equations?

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

- A. (2.5, 5.5)
- B. (4,1)
- C. (4,4)
- D. (5.5, 2.5)
- Which ordered pair is the solution to this system of equations?

$$2x - y = 10$$
$$x + y = 2$$

- A. (4, -2)
- B. (4,2)
- C. (2, -4)
- D. (-4, 2)
- 14. What is the solution for x in the following system of equations?

$$-y = 2x - 3$$
$$y = -x + 1$$

- A. $\frac{2}{3}$
- B. 2
- C. $\frac{4}{3}$
- D. 4

15. Which ordered pair is the solution of this system of equations

$$3x + 27 = 4$$
$$-2x + 2y = 24$$

- A. (-4, 8)
- B. (-4, -8)
- C. (2,-1)
- D. (2, -5)
- 16. What is the solution set of the following system of equations?

$$x + y = 7$$
$$x - y = 3$$

- A. (3,4)
- B. (5,2)
- C. (10, -3)
- D. (8, -1)
- Which ordered pair is the solution of the following system of equations?

$$3x + 2y = 4$$
$$-2x + 2y = 24$$

- A. (2, -1)
- B. (2, -5)
- C. (-4, 8)
- D. (-4, -8)
- 18. What is a solution for the system of equations x - y = 2 and y = 2x - 4?

- A. (0,2) B. (2,0) C. (3,2) D. (4,2)

19. What is the value of y in the following system of equations?

$$2x + 3y = 6$$
$$2x + y = -2$$

- A. 1
- B. 2
- C. -3 D. 4
- 20. When solved graphically, which system of equations will have exactly one point of intersection?

 - A. y = -x 20 B. y = 0.5x + 30y = x + 17 y = 0.5x - 30

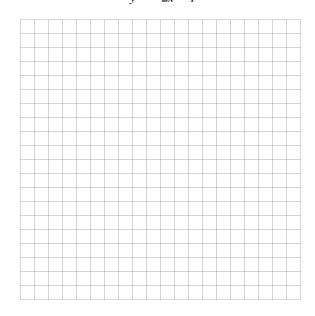
 - C. $y = \frac{3}{5}x + 12$ D. y = -x + 15 v = 0.6x 19 y = -x + 25
- 21. Which ordered pair satisfies the system of equations below?

$$3x - y = 8$$
$$x + y = 2$$

- A. (3, -1)
- B. (2.5, -0.5)
- C. (2.5, 0.5)
- D. (5, -3)
- 22. If x + y = -10 and x y = 2, what is the value of x?
- A. -6 B. 6 C. -4 D. 4

- 23. What is the value of the y-coordinate of the solution to the system of equations x + 2y = 9 and x - y = 3?
 - A. 6
- B. 2 C. 3 D. 5
- 24. What is the value of the y-coordinate of the solution to the system of equations x - 2y = 1 and x + 4y = 7?
 - A. 1
- B. -1 C. 3 D. 4
- 25. On the grid below, solve the system of equations graphically for x and y.

$$4x - 2y = 10$$
$$y = -2x - 1$$



26. What is the solution of the system of equations c + 3d = 8 and c = 4d - 6?

A.
$$c = -14, d = -2$$
 B. $c = -2, d = 2$

B.
$$c = -2, d = 2$$

C.
$$c = 2, d = 2$$

C.
$$c = 2, d = 2$$
 D. $c = 14, d = -2$

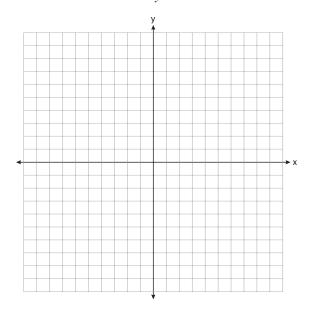
- 27. What is the value of the y-coordinate of the solution to the system of equations 2x + y = 8 and x - 3y = -3
 - A. -2

- B. 2 C. 3 D. -3

28. On the set of axes below, solve the following system of equations graphically. State the coordinates of the solution.

$$y = 4x - 1$$

$$2x + y = 5$$



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1. Answer:	4
2. Answer:	x = 4, y = -3
3. Answer:	3
4. Answer:	(-2, 6)
5. Answer:	1
6. Answer:	[graph]
7. Answer:	x = 5, y = 2
8. Answer:	D
9. Answer:	C
10. Answer:	D
11. Answer:	2
12. Answer:	D
13. Answer:	A
14. Answer:	В
15. Answer:	A
16. Answer:	В
17. Answer:	С
18. Answer:	В
19. Answer:	D

20. Answer:	A
21. Answer:	В
22.	Б
Answer:	С
23. Answer:	В
24. Answer:	A
25.	
26. Answer:	C
27. Answer:	В
28.	

Answer: Correct graphs are drawn, and at least one is labeled, and (1, 3) or x = 1,

y = 3 is stated.