

Name _____

SYSTEMS OF EQUATIONS #2

Directions: Solve each of the *system of equations* below. Test each possible solution by replacing x and y with each possible solution. The coordinate pair that makes both equations true is the only correct solution. Circle the correct answer.

Examples: $x + y = 12$

$$2x + y = 16$$

(4,8) is the only solution because

$$4 + 8 = 12 \text{ and}$$

$$2(4) + 8 = 16$$

$$x + y = 20$$

$$4x + 5y = 100$$

(0,20) is the only solution because

$$0 + 20 = 20 \text{ and}$$

$$4(0) + 5(20) = 100$$

1) $x + 5y = 10$
 $2x + y = 20$

- a) (2,6)
- b) (8,2)
- c) (10,0)

2) $3x + 4y = 8$
 $2x + y = 42$

- a) (30, -19)
- b) (31, -20)
- c) (32, -22)

3) $8x + 7y = 62$
 $2x + y = 26$

- a) (6,-14)
- b) (8,-14)
- c) (20,-14)

4) $2x - y = 32$
 $2x + y = 16$

- a) (13,-6)
- b) (12,-8)
- c) (11, -10)

5) $y = -2x + 40$
 $x + y = 20$

- a) (20,10)
- b) (8,12)
- c) (20,0)

6) $y = 3x + 55$
 $x + y = -17$

- a) (-18,1)
- b) (2,6)
- c) (10,12)

7) $2x + y = 26$
 $x = 6y - 40$

- a) (0,26)
- b) (8,8)
- c) (10,-4)

8) $2x + y = 14$
 $y = -16 - x$

- a) (40,26)
- b) (30,-46)
- c) (28,-44)

9) $x - y = 1$
 $2x + y = 20$

- a) (11,-2)
- b) (7,6)
- c) (-10,2)

10) $-x + -y = -2$
 $2x - y = 22$

- a) (8,-6)
- b) (4,1)
- c) (2,-3)

11) $-x - (-y) = -7$
 $2x + y = 14$

- a) (6,-4)
- b) (8,-4)
- c) (7,0)

12) $-x + -y = -14$
 $2x - y = 16$

- a) (2,12)
- b) (3,11)
- c) (10,4)

13) $4x + y = 2$
 $5x + y = 6$

- a) (4,-10)
- b) (4,-30)
- c) (4,-14)

14) $2x + y = 22$
 $x + y = 2$

- a) (-8,14)
- b) (20,-18)
- c) (40,-38)

15) $2x + y = 6$
 $x + y = 6$

- a) (0,16)
- b) (8,8)
- c) (0,6)

16) $2x + y = 14$
 $2x - y = -18$

- a) (-1,16)
- b) (0,-46)
- c) (26,8)