



For each system of equations determine the point of intersection in a graph.

1)
$$\begin{cases} y = 0.3x - 4 \\ y = 1.5x + 8 \end{cases}$$

2)
$$\begin{cases} y = 0.8x + 3 \\ y = 0.2x + 6 \end{cases}$$

3)
$$\begin{cases} y = -0.4x - 4 \\ y = 0.2x - 7 \end{cases}$$

4)
$$\begin{cases} y = -0.5x + 8 \\ y = 0.6x - 3 \end{cases}$$

5)
$$\begin{cases} y = -0.3x - 4 \\ y = 0.5x + 4 \end{cases}$$

6)
$$\begin{cases} y = -0.2x - 6 \\ y = 0.3x - 1 \end{cases}$$

7)
$$\begin{cases} y = -0.5x + 7 \\ y = 0.7x - 5 \end{cases}$$

8)
$$\begin{cases} y = -1.75x - 4 \\ y = -0.25x + 2 \end{cases}$$

9)
$$\begin{cases} y = -0.4x - 1 \\ y = -0.3x + 0 \end{cases}$$

10)
$$\begin{cases} y = 0.5x - 4 \\ y = -0.5x + 4 \end{cases}$$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



For each system of equations determine the point of intersection in a graph.

Answers

$$1) \begin{cases} y = 0.3x - 4 \\ y = 1.5x + 8 \end{cases}$$

$$0.3x + -4 = 1.5x + 8$$

$$-1.2x = 12$$

$$1x = -10$$

$$y = (0.3 \times -10) + -4$$

$$y = (1.5 \times -10) + 8$$

$$2) \begin{cases} y = 0.8x + 3 \\ y = 0.2x + 6 \end{cases}$$

$$0.8x + 3 = 0.2x + 6$$

$$0.6x = 3$$

$$1x = 5$$

$$y = (0.8 \times 5) + 3$$

$$y = (0.2 \times 5) + 6$$

$$3) \begin{cases} y = -0.4x - 4 \\ y = 0.2x - 7 \end{cases}$$

$$-0.4x + -4 = 0.2x + -7$$

$$-0.6x = -3$$

$$1x = 5$$

$$y = (-0.4 \times 5) + -4$$

$$y = (0.2 \times 5) + -7$$

$$4) \begin{cases} y = -0.5x + 8 \\ y = 0.6x - 3 \end{cases}$$

$$-0.5x + 8 = 0.6x + -3$$

$$-1.1x = -11$$

$$1x = 10$$

$$y = (-0.5 \times 10) + 8$$

$$y = (0.6 \times 10) + -3$$

$$5) \begin{cases} y = -0.3x - 4 \\ y = 0.5x + 4 \end{cases}$$

$$-0.3x + -4 = 0.5x + 4$$

$$-0.8x = 8$$

$$1x = -10$$

$$y = (-0.3 \times -10) + -4$$

$$y = (0.5 \times -10) + 4$$

$$6) \begin{cases} y = -0.2x - 6 \\ y = 0.3x - 1 \end{cases}$$

$$-0.2x + -6 = 0.3x + -1$$

$$-0.5x = 5$$

$$1x = -10$$

$$y = (-0.2 \times -10) + -6$$

$$y = (0.3 \times -10) + -1$$

$$7) \begin{cases} y = -0.5x + 7 \\ y = 0.7x - 5 \end{cases}$$

$$-0.5x + 7 = 0.7x + -5$$

$$-1.2x = -12$$

$$1x = 10$$

$$y = (-0.5 \times 10) + 7$$

$$y = (0.7 \times 10) + -5$$

$$8) \begin{cases} y = -1.75x - 4 \\ y = -0.25x + 2 \end{cases}$$

$$-1.75x + -4 = -0.25x + 2$$

$$-1.5x = 6$$

$$1x = -4$$

$$y = (-1.75 \times -4) + -4$$

$$y = (-0.25 \times -4) + 2$$

$$9) \begin{cases} y = -0.4x - 1 \\ y = -0.3x + 0 \end{cases}$$

$$-0.4x + -1 = -0.3x + 0$$

$$-0.1x = 1$$

$$1x = -10$$

$$y = (-0.4 \times -10) + -1$$

$$y = (-0.3 \times -10) + 0$$

$$10) \begin{cases} y = 0.5x - 4 \\ y = -0.5x + 4 \end{cases}$$

$$0.5x + -4 = -0.5x + 4$$

$$1x = 8$$

$$1x = 8$$

$$y = (0.5 \times 8) + -4$$

$$y = (-0.5 \times 8) + 4$$

1. **(-10, -7)**2. **(5, 7)**3. **(5, -6)**4. **(10, 3)**5. **(-10, -1)**6. **(-10, -4)**7. **(10, 2)**8. **(-4, 3)**9. **(-10, 3)**10. **(8, 0)**



For each system of equations determine the point of intersection in a graph.

1)
$$\begin{cases} y = 3.5x - 9 \\ y = 1.75x - 2 \end{cases}$$

2)
$$\begin{cases} y = 0.2x - 3 \\ y = -0.6x + 1 \end{cases}$$

3)
$$\begin{cases} y = -0.5x - 4 \\ y = -0.25x - 5 \end{cases}$$

4)
$$\begin{cases} y = 1.75x - 8 \\ y = -0.5x + 1 \end{cases}$$

5)
$$\begin{cases} y = -0.5x - 8 \\ y = -0.1x - 4 \end{cases}$$

6)
$$\begin{cases} y = 4.5x - 3 \\ y = 6.5x - 7 \end{cases}$$

7)
$$\begin{cases} y = -0.75x + 0 \\ y = 1.25x + 8 \end{cases}$$

8)
$$\begin{cases} y = -1.2x - 4 \\ y = 0.4x + 4 \end{cases}$$

9)
$$\begin{cases} y = -1.75x - 4 \\ y = 0.75x + 6 \end{cases}$$

10)
$$\begin{cases} y = -1.25x - 2 \\ y = 1.5x + 9 \end{cases}$$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



For each system of equations determine the point of intersection in a graph.

$$1) \begin{cases} y = 3.5x - 9 \\ y = 1.75x - 2 \end{cases}$$

$$3.5x + -9 = 1.75x + -2$$

$$1.75x = 7$$

$$1x = 4$$

$$y = (3.5 \times 4) + -9$$

$$y = (1.75 \times 4) + -2$$

$$2) \begin{cases} y = 0.2x - 3 \\ y = -0.6x + 1 \end{cases}$$

$$0.2x + -3 = -0.6x + 1$$

$$0.8x = 4$$

$$1x = 5$$

$$y = (0.2 \times 5) + -3$$

$$y = (-0.6 \times 5) + 1$$

$$3) \begin{cases} y = -0.5x - 4 \\ y = -0.25x - 5 \end{cases}$$

$$-0.5x + -4 = -0.25x + -5$$

$$-0.25x = -1$$

$$1x = 4$$

$$y = (-0.5 \times 4) + -4$$

$$y = (-0.25 \times 4) + -5$$

$$4) \begin{cases} y = 1.75x - 8 \\ y = -0.5x + 1 \end{cases}$$

$$1.75x + -8 = -0.5x + 1$$

$$2.25x = 9$$

$$1x = 4$$

$$y = (1.75 \times 4) + -8$$

$$y = (-0.5 \times 4) + 1$$

$$5) \begin{cases} y = -0.5x - 8 \\ y = -0.1x - 4 \end{cases}$$

$$-0.5x + -8 = -0.1x + -4$$

$$-0.4x = 4$$

$$1x = -10$$

$$y = (-0.5 \times -10) + -8$$

$$y = (-0.1 \times -10) + -4$$

$$6) \begin{cases} y = 4.5x - 3 \\ y = 6.5x - 7 \end{cases}$$

$$4.5x + -3 = 6.5x + -7$$

$$-2x = -4$$

$$1x = 2$$

$$y = (4.5 \times 2) + -3$$

$$y = (6.5 \times 2) + -7$$

$$7) \begin{cases} y = -0.75x + 0 \\ y = 1.25x + 8 \end{cases}$$

$$-0.75x + 0 = 1.25x + 8$$

$$-2x = 8$$

$$1x = -4$$

$$y = (-0.75 \times -4) + 0$$

$$y = (1.25 \times -4) + 8$$

$$8) \begin{cases} y = -1.2x - 4 \\ y = 0.4x + 4 \end{cases}$$

$$-1.2x + -4 = 0.4x + 4$$

$$-1.6x = 8$$

$$1x = -5$$

$$y = (-1.2 \times -5) + -4$$

$$y = (0.4 \times -5) + 4$$

$$9) \begin{cases} y = -1.75x - 4 \\ y = 0.75x + 6 \end{cases}$$

$$-1.75x + -4 = 0.75x + 6$$

$$-2.5x = 10$$

$$1x = -4$$

$$y = (-1.75 \times -4) + -4$$

$$y = (0.75 \times -4) + 6$$

$$10) \begin{cases} y = -1.25x - 2 \\ y = 1.5x + 9 \end{cases}$$

$$-1.25x + -2 = 1.5x + 9$$

$$-2.75x = 11$$

$$1x = -4$$

$$y = (-1.25 \times -4) + -2$$

$$y = (1.5 \times -4) + 9$$

Answers1. (4, 5)2. (5, -2)3. (4, -6)4. (4, -1)5. (-10, -3)6. (2, 6)7. (-4, 3)8. (-5, 2)9. (-4, 3)10. (-4, 3)



For each system of equations determine the point of intersection in a graph.

1)
$$\begin{cases} y = 0.4x + 4 \\ y = 0.9x + 9 \end{cases}$$

2)
$$\begin{cases} y = 0.1x - 7 \\ y = 0.7x - 1 \end{cases}$$

3)
$$\begin{cases} y = 0.4x + 4 \\ y = -0.3x - 3 \end{cases}$$

4)
$$\begin{cases} y = 2.75x - 6 \\ y = -0.75x + 8 \end{cases}$$

5)
$$\begin{cases} y = -1.75x - 2 \\ y = -2.25x + 0 \end{cases}$$

6)
$$\begin{cases} y = -1.75x + 2 \\ y = -0.5x + 7 \end{cases}$$

7)
$$\begin{cases} y = -2.25x + 7 \\ y = -0.75x + 1 \end{cases}$$

8)
$$\begin{cases} y = 0.5x + 6 \\ y = 3.75x - 7 \end{cases}$$

9)
$$\begin{cases} y = -0.6x - 4 \\ y = 0.4x + 1 \end{cases}$$

10)
$$\begin{cases} y = 1.5x - 9 \\ y = -5.5x + 5 \end{cases}$$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



For each system of equations determine the point of intersection in a graph.

1)
$$\begin{cases} y = 0.4x + 4 \\ y = 0.9x + 9 \end{cases}$$

$$0.4x + 4 = 0.9x + 9$$

$$-0.5x = 5$$

$$1x = -10$$

$$y = (0.4 \times -10) + 4$$

$$y = (0.9 \times -10) + 9$$

2)
$$\begin{cases} y = 0.1x - 7 \\ y = 0.7x - 1 \end{cases}$$

$$0.1x - 7 = 0.7x - 1$$

$$-0.6x = 6$$

$$1x = -10$$

$$y = (0.1 \times -10) - 7$$

$$y = (0.7 \times -10) - 1$$

3)
$$\begin{cases} y = 0.4x + 4 \\ y = -0.3x - 3 \end{cases}$$

$$0.4x + 4 = -0.3x - 3$$

$$0.7x = -7$$

$$1x = -10$$

$$y = (0.4 \times -10) + 4$$

$$y = (-0.3 \times -10) - 3$$

4)
$$\begin{cases} y = 2.75x - 6 \\ y = -0.75x + 8 \end{cases}$$

$$2.75x - 6 = -0.75x + 8$$

$$3.5x = 14$$

$$1x = 4$$

$$y = (2.75 \times 4) - 6$$

$$y = (-0.75 \times 4) + 8$$

5)
$$\begin{cases} y = -1.75x - 2 \\ y = -2.25x + 0 \end{cases}$$

$$-1.75x - 2 = -2.25x + 0$$

$$0.5x = 2$$

$$1x = 4$$

$$y = (-1.75 \times 4) - 2$$

$$y = (-2.25 \times 4) + 0$$

6)
$$\begin{cases} y = -1.75x + 2 \\ y = -0.5x + 7 \end{cases}$$

$$-1.75x + 2 = -0.5x + 7$$

$$-1.25x = 5$$

$$1x = -4$$

$$y = (-1.75 \times -4) + 2$$

$$y = (-0.5 \times -4) + 7$$

7)
$$\begin{cases} y = -2.25x + 7 \\ y = -0.75x + 1 \end{cases}$$

$$-2.25x + 7 = -0.75x + 1$$

$$-1.5x = -6$$

$$1x = 4$$

$$y = (-2.25 \times 4) + 7$$

$$y = (-0.75 \times 4) + 1$$

8)
$$\begin{cases} y = 0.5x + 6 \\ y = 3.75x - 7 \end{cases}$$

$$0.5x + 6 = 3.75x - 7$$

$$-3.25x = -13$$

$$1x = 4$$

$$y = (0.5 \times 4) + 6$$

$$y = (3.75 \times 4) - 7$$

9)
$$\begin{cases} y = -0.6x - 4 \\ y = 0.4x + 1 \end{cases}$$

$$-0.6x - 4 = 0.4x + 1$$

$$-1x = 5$$

$$1x = -5$$

$$y = (-0.6 \times -5) - 4$$

$$y = (0.4 \times -5) + 1$$

10)
$$\begin{cases} y = 1.5x - 9 \\ y = -5.5x + 5 \end{cases}$$

$$1.5x - 9 = -5.5x + 5$$

$$7x = 14$$

$$1x = 2$$

$$y = (1.5 \times 2) - 9$$

$$y = (-5.5 \times 2) + 5$$

Answers

1. **(-10, 0)**

2. **(-10, -8)**

3. **(-10, 0)**

4. **(4, 5)**

5. **(4, -9)**

6. **(-4, 9)**

7. **(4, -2)**

8. **(4, 8)**

9. **(-5, -1)**

10. **(2, -6)**



For each system of equations determine the point of intersection in a graph.

1)
$$\begin{cases} y = 2.25x - 8 \\ y = -1.25x + 6 \end{cases}$$

2)
$$\begin{cases} y = 5.5x + 6 \\ y = 4.5x + 4 \end{cases}$$

3)
$$\begin{cases} y = -8.5x - 9 \\ y = -6.5x - 5 \end{cases}$$

4)
$$\begin{cases} y = 0.7x - 5 \\ y = -0.2x + 4 \end{cases}$$

5)
$$\begin{cases} y = 4.75x - 9 \\ y = 1.75x + 3 \end{cases}$$

6)
$$\begin{cases} y = 0.8x - 3 \\ y = 0.7x - 2 \end{cases}$$

7)
$$\begin{cases} y = 0.3x - 7 \\ y = 0.4x - 8 \end{cases}$$

8)
$$\begin{cases} y = 1.5x + 2 \\ y = 0.25x - 8 \end{cases}$$

9)
$$\begin{cases} y = 0.6x - 5 \\ y = -1.2x + 4 \end{cases}$$

10)
$$\begin{cases} y = 0.8x + 5 \\ y = 0.4x + 3 \end{cases}$$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



For each system of equations determine the point of intersection in a graph.

Answers

1)
$$\begin{cases} y = 2.25x - 8 \\ y = -1.25x + 6 \end{cases}$$

$$2.25x + 8 = -1.25x + 6$$

$$3.5x = 14$$

$$1x = 4$$

$$y = (2.25 \times 4) - 8$$

$$y = (-1.25 \times 4) + 6$$

2)
$$\begin{cases} y = 5.5x + 6 \\ y = 4.5x + 4 \end{cases}$$

$$5.5x + 6 = 4.5x + 4$$

$$1x = -2$$

$$1x = -2$$

$$y = (5.5 \times -2) + 6$$

$$y = (4.5 \times -2) + 4$$

3)
$$\begin{cases} y = -8.5x - 9 \\ y = -6.5x - 5 \end{cases}$$

$$-8.5x - 9 = -6.5x - 5$$

$$-2x = 4$$

$$1x = -2$$

$$y = (-8.5 \times -2) - 9$$

$$y = (-6.5 \times -2) - 5$$

4)
$$\begin{cases} y = 0.7x - 5 \\ y = -0.2x + 4 \end{cases}$$

$$0.7x - 5 = -0.2x + 4$$

$$0.9x = 9$$

$$1x = 10$$

$$y = (0.7 \times 10) - 5$$

$$y = (-0.2 \times 10) + 4$$

5)
$$\begin{cases} y = 4.75x - 9 \\ y = 1.75x + 3 \end{cases}$$

$$4.75x - 9 = 1.75x + 3$$

$$3x = 12$$

$$1x = 4$$

$$y = (4.75 \times 4) - 9$$

$$y = (1.75 \times 4) + 3$$

6)
$$\begin{cases} y = 0.8x - 3 \\ y = 0.7x - 2 \end{cases}$$

$$0.8x - 3 = 0.7x - 2$$

$$0.1x = 1$$

$$1x = 10$$

$$y = (0.8 \times 10) - 3$$

$$y = (0.7 \times 10) - 2$$

7)
$$\begin{cases} y = 0.3x - 7 \\ y = 0.4x - 8 \end{cases}$$

$$0.3x - 7 = 0.4x - 8$$

$$-0.1x = -1$$

$$1x = 10$$

$$y = (0.3 \times 10) - 7$$

$$y = (0.4 \times 10) - 8$$

8)
$$\begin{cases} y = 1.5x + 2 \\ y = 0.25x - 8 \end{cases}$$

$$1.5x + 2 = 0.25x - 8$$

$$1.25x = -10$$

$$1x = -8$$

$$y = (1.5 \times -8) + 2$$

$$y = (0.25 \times -8) - 8$$

9)
$$\begin{cases} y = 0.6x - 5 \\ y = -1.2x + 4 \end{cases}$$

$$0.6x - 5 = -1.2x + 4$$

$$1.8x = 9$$

$$1x = 5$$

$$y = (0.6 \times 5) - 5$$

$$y = (-1.2 \times 5) + 4$$

10)
$$\begin{cases} y = 0.8x + 5 \\ y = 0.4x + 3 \end{cases}$$

$$0.8x + 5 = 0.4x + 3$$

$$0.4x = -2$$

$$1x = -5$$

$$y = (0.8 \times -5) + 5$$

$$y = (0.4 \times -5) + 3$$

1. (4, 1)
2. (-2, -5)
3. (-2, 8)
4. (10, 2)
5. (4, 10)
6. (10, 5)
7. (10, -4)
8. (-8, -10)
9. (5, -2)
10. (-5, 1)



For each system of equations determine the point of intersection in a graph.

1)
$$\begin{cases} y = -0.5x + 3 \\ y = 0.25x + 0 \end{cases}$$

2)
$$\begin{cases} y = 0.3x - 8 \\ y = -0.6x + 1 \end{cases}$$

3)
$$\begin{cases} y = 4.5x - 8 \\ y = 0.5x + 0 \end{cases}$$

4)
$$\begin{cases} y = 0.1x - 6 \\ y = 0.8x + 1 \end{cases}$$

5)
$$\begin{cases} y = 0.5x - 7 \\ y = 4.25x + 8 \end{cases}$$

6)
$$\begin{cases} y = 2.25x + 8 \\ y = -0.5x - 3 \end{cases}$$

7)
$$\begin{cases} y = -3.25x + 6 \\ y = -1.75x + 0 \end{cases}$$

8)
$$\begin{cases} y = 0.9x - 9 \\ y = 0.5x - 5 \end{cases}$$

9)
$$\begin{cases} y = -2.5x - 4 \\ y = -1.5x + 0 \end{cases}$$

10)
$$\begin{cases} y = -0.25x - 8 \\ y = -1.5x - 3 \end{cases}$$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



For each system of equations determine the point of intersection in a graph.

Answers

$$1) \begin{cases} y = -0.5x + 3 \\ y = 0.25x + 0 \end{cases}$$

$$-0.5x + 3 = 0.25x + 0$$

$$-0.75x = -3$$

$$1x = 4$$

$$y = (-0.5 \times 4) + 3$$

$$y = (0.25 \times 4) + 0$$

$$2) \begin{cases} y = 0.3x - 8 \\ y = -0.6x + 1 \end{cases}$$

$$0.3x - 8 = -0.6x + 1$$

$$0.9x = 9$$

$$1x = 10$$

$$y = (0.3 \times 10) - 8$$

$$y = (-0.6 \times 10) + 1$$

$$3) \begin{cases} y = 4.5x - 8 \\ y = 0.5x + 0 \end{cases}$$

$$4.5x - 8 = 0.5x + 0$$

$$4x = 8$$

$$1x = 2$$

$$y = (4.5 \times 2) - 8$$

$$y = (0.5 \times 2) + 0$$

$$4) \begin{cases} y = 0.1x - 6 \\ y = 0.8x + 1 \end{cases}$$

$$0.1x - 6 = 0.8x + 1$$

$$-0.7x = 7$$

$$1x = -10$$

$$y = (0.1 \times -10) - 6$$

$$y = (0.8 \times -10) + 1$$

$$5) \begin{cases} y = 0.5x - 7 \\ y = 4.25x + 8 \end{cases}$$

$$0.5x - 7 = 4.25x + 8$$

$$-3.75x = 15$$

$$1x = -4$$

$$y = (0.5 \times -4) - 7$$

$$y = (4.25 \times -4) + 8$$

$$6) \begin{cases} y = 2.25x + 8 \\ y = -0.5x - 3 \end{cases}$$

$$2.25x + 8 = -0.5x - 3$$

$$2.75x = -11$$

$$1x = -4$$

$$y = (2.25 \times -4) + 8$$

$$y = (-0.5 \times -4) - 3$$

$$7) \begin{cases} y = -3.25x + 6 \\ y = -1.75x + 0 \end{cases}$$

$$-3.25x + 6 = -1.75x + 0$$

$$-1.5x = -6$$

$$1x = 4$$

$$y = (-3.25 \times 4) + 6$$

$$y = (-1.75 \times 4) + 0$$

$$8) \begin{cases} y = 0.9x - 9 \\ y = 0.5x - 5 \end{cases}$$

$$0.9x - 9 = 0.5x - 5$$

$$0.4x = 4$$

$$1x = 10$$

$$y = (0.9 \times 10) - 9$$

$$y = (0.5 \times 10) - 5$$

$$9) \begin{cases} y = -2.5x - 4 \\ y = -1.5x + 0 \end{cases}$$

$$-2.5x - 4 = -1.5x + 0$$

$$-1x = 4$$

$$1x = -4$$

$$y = (-2.5 \times -4) - 4$$

$$y = (-1.5 \times -4) + 0$$

$$10) \begin{cases} y = -0.25x - 8 \\ y = -1.5x - 3 \end{cases}$$

$$-0.25x - 8 = -1.5x - 3$$

$$1.25x = 5$$

$$1x = 4$$

$$y = (-0.25 \times 4) - 8$$

$$y = (-1.5 \times 4) - 3$$

1. (4, 1)2. (10, -5)3. (2, 1)4. (-10, -7)5. (-4, -9)6. (-4, -1)7. (4, -7)8. (10, 0)9. (-4, 6)10. (4, -9)



For each system of equations determine the point of intersection in a graph.

1)
$$\begin{cases} y = 0.25x + 5 \\ y = 2.5x - 4 \end{cases}$$

2)
$$\begin{cases} y = 2.5x + 7 \\ y = -1.5x - 9 \end{cases}$$

3)
$$\begin{cases} y = 0.2x + 3 \\ y = 1.8x - 5 \end{cases}$$

4)
$$\begin{cases} y = 0.4x + 4 \\ y = 0.6x + 5 \end{cases}$$

5)
$$\begin{cases} y = 1.5x + 2 \\ y = 4.25x - 9 \end{cases}$$

6)
$$\begin{cases} y = 0.25x - 9 \\ y = 3.75x + 5 \end{cases}$$

7)
$$\begin{cases} y = 1.8x + 3 \\ y = 0.6x - 3 \end{cases}$$

8)
$$\begin{cases} y = 1.5x + 8 \\ y = -0.5x + 0 \end{cases}$$

9)
$$\begin{cases} y = 1.5x + 7 \\ y = -0.5x - 9 \end{cases}$$

10)
$$\begin{cases} y = -1.25x + 5 \\ y = -1.75x + 3 \end{cases}$$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



For each system of equations determine the point of intersection in a graph.

$$1) \begin{cases} y = 0.25x + 5 \\ y = 2.5x - 4 \end{cases}$$

$$0.25x + 5 = 2.5x - 4$$

$$-2.25x = -9$$

$$1x = 4$$

$$y = (0.25 \times 4) + 5$$

$$y = (2.5 \times 4) - 4$$

$$2) \begin{cases} y = 2.5x + 7 \\ y = -1.5x - 9 \end{cases}$$

$$2.5x + 7 = -1.5x - 9$$

$$4x = -16$$

$$1x = -4$$

$$y = (2.5 \times -4) + 7$$

$$y = (-1.5 \times -4) - 9$$

$$3) \begin{cases} y = 0.2x + 3 \\ y = 1.8x - 5 \end{cases}$$

$$0.2x + 3 = 1.8x - 5$$

$$-1.6x = -8$$

$$1x = 5$$

$$y = (0.2 \times 5) + 3$$

$$y = (1.8 \times 5) - 5$$

$$4) \begin{cases} y = 0.4x + 4 \\ y = 0.6x + 5 \end{cases}$$

$$0.4x + 4 = 0.6x + 5$$

$$-0.2x = 1$$

$$1x = -5$$

$$y = (0.4 \times -5) + 4$$

$$y = (0.6 \times -5) + 5$$

$$5) \begin{cases} y = 1.5x + 2 \\ y = 4.25x - 9 \end{cases}$$

$$1.5x + 2 = 4.25x - 9$$

$$-2.75x = -11$$

$$1x = 4$$

$$y = (1.5 \times 4) + 2$$

$$y = (4.25 \times 4) - 9$$

$$6) \begin{cases} y = 0.25x - 9 \\ y = 3.75x + 5 \end{cases}$$

$$0.25x - 9 = 3.75x + 5$$

$$-3.5x = 14$$

$$1x = -4$$

$$y = (0.25 \times -4) - 9$$

$$y = (3.75 \times -4) + 5$$

$$7) \begin{cases} y = 1.8x + 3 \\ y = 0.6x - 3 \end{cases}$$

$$1.8x + 3 = 0.6x - 3$$

$$1.2x = -6$$

$$1x = -5$$

$$y = (1.8 \times -5) + 3$$

$$y = (0.6 \times -5) - 3$$

$$8) \begin{cases} y = 1.5x + 8 \\ y = -0.5x + 0 \end{cases}$$

$$1.5x + 8 = -0.5x + 0$$

$$2x = -8$$

$$1x = -4$$

$$y = (1.5 \times -4) + 8$$

$$y = (-0.5 \times -4) + 0$$

$$9) \begin{cases} y = 1.5x + 7 \\ y = -0.5x - 9 \end{cases}$$

$$1.5x + 7 = -0.5x - 9$$

$$2x = -16$$

$$1x = -8$$

$$y = (1.5 \times -8) + 7$$

$$y = (-0.5 \times -8) - 9$$

$$10) \begin{cases} y = -1.25x + 5 \\ y = -1.75x + 3 \end{cases}$$

$$-1.25x + 5 = -1.75x + 3$$

$$0.5x = -2$$

$$1x = -4$$

$$y = (-1.25 \times -4) + 5$$

$$y = (-1.75 \times -4) + 3$$

Answers1. (4, 6)2. (-4, -3)3. (5, 4)4. (-5, 2)5. (4, 8)6. (-4, -10)7. (-5, -6)8. (-4, 2)9. (-8, -5)10. (-4, 10)



For each system of equations determine the point of intersection in a graph.

1)
$$\begin{cases} y = -0.2x + 3 \\ y = 0.1x + 6 \end{cases}$$

2)
$$\begin{cases} y = -0.5x + 9 \\ y = 0.2x + 2 \end{cases}$$

3)
$$\begin{cases} y = 1.7x + 7 \\ y = 0.6x - 4 \end{cases}$$

4)
$$\begin{cases} y = -0.2x - 7 \\ y = 0.3x - 2 \end{cases}$$

5)
$$\begin{cases} y = 0.5x - 2 \\ y = 1.5x + 6 \end{cases}$$

6)
$$\begin{cases} y = -3.5x + 9 \\ y = 1.5x - 1 \end{cases}$$

7)
$$\begin{cases} y = -1.5x + 9 \\ y = -0.25x + 4 \end{cases}$$

8)
$$\begin{cases} y = 0.5x + 7 \\ y = 3.5x - 5 \end{cases}$$

9)
$$\begin{cases} y = 0.5x - 8 \\ y = -2.25x + 3 \end{cases}$$

10)
$$\begin{cases} y = 0.2x + 1 \\ y = 0.6x - 1 \end{cases}$$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



For each system of equations determine the point of intersection in a graph.

$$1) \begin{cases} y = -0.2x + 3 \\ y = 0.1x + 6 \end{cases}$$

$$-0.2x + 3 = 0.1x + 6$$

$$-0.3x = 3$$

$$1x = -10$$

$$y = (-0.2 \times -10) + 3$$

$$y = (0.1 \times -10) + 6$$

$$2) \begin{cases} y = -0.5x + 9 \\ y = 0.2x + 2 \end{cases}$$

$$-0.5x + 9 = 0.2x + 2$$

$$-0.7x = -7$$

$$1x = 10$$

$$y = (-0.5 \times 10) + 9$$

$$y = (0.2 \times 10) + 2$$

$$3) \begin{cases} y = 1.7x + 7 \\ y = 0.6x - 4 \end{cases}$$

$$1.7x + 7 = 0.6x - 4$$

$$1.1x = -11$$

$$1x = -10$$

$$y = (1.7 \times -10) + 7$$

$$y = (0.6 \times -10) - 4$$

$$4) \begin{cases} y = -0.2x - 7 \\ y = 0.3x - 2 \end{cases}$$

$$-0.2x - 7 = 0.3x - 2$$

$$-0.5x = 5$$

$$1x = -10$$

$$y = (-0.2 \times -10) - 7$$

$$y = (0.3 \times -10) - 2$$

$$5) \begin{cases} y = 0.5x - 2 \\ y = 1.5x + 6 \end{cases}$$

$$0.5x - 2 = 1.5x + 6$$

$$-1x = 8$$

$$1x = -8$$

$$y = (0.5 \times -8) - 2$$

$$y = (1.5 \times -8) + 6$$

$$6) \begin{cases} y = -3.5x + 9 \\ y = 1.5x - 1 \end{cases}$$

$$-3.5x + 9 = 1.5x - 1$$

$$-5x = -10$$

$$1x = 2$$

$$y = (-3.5 \times 2) + 9$$

$$y = (1.5 \times 2) - 1$$

$$7) \begin{cases} y = -1.5x + 9 \\ y = -0.25x + 4 \end{cases}$$

$$-1.5x + 9 = -0.25x + 4$$

$$-1.25x = -5$$

$$1x = 4$$

$$y = (-1.5 \times 4) + 9$$

$$y = (-0.25 \times 4) + 4$$

$$8) \begin{cases} y = 0.5x + 7 \\ y = 3.5x - 5 \end{cases}$$

$$0.5x + 7 = 3.5x - 5$$

$$-3x = -12$$

$$1x = 4$$

$$y = (0.5 \times 4) + 7$$

$$y = (3.5 \times 4) - 5$$

$$9) \begin{cases} y = 0.5x - 8 \\ y = -2.25x + 3 \end{cases}$$

$$0.5x - 8 = -2.25x + 3$$

$$2.75x = 11$$

$$1x = 4$$

$$y = (0.5 \times 4) - 8$$

$$y = (-2.25 \times 4) + 3$$

$$10) \begin{cases} y = 0.2x + 1 \\ y = 0.6x - 1 \end{cases}$$

$$0.2x + 1 = 0.6x - 1$$

$$-0.4x = -2$$

$$1x = 5$$

$$y = (0.2 \times 5) + 1$$

$$y = (0.6 \times 5) - 1$$

Answers

1. **(-10, 5)**

2. **(10, 4)**

3. **(-10, -10)**

4. **(-10, -5)**

5. **(-8, -6)**

6. **(2, 2)**

7. **(4, 3)**

8. **(4, 9)**

9. **(4, -6)**

10. **(5, 2)**



For each system of equations determine the point of intersection in a graph.

1)
$$\begin{cases} y = 0.25x - 8 \\ y = -1.25x + 4 \end{cases}$$

2)
$$\begin{cases} y = 0.4x - 8 \\ y = -0.6x + 2 \end{cases}$$

3)
$$\begin{cases} y = -0.6x + 5 \\ y = -0.2x + 1 \end{cases}$$

4)
$$\begin{cases} y = -1.5x - 8 \\ y = -0.5x + 2 \end{cases}$$

5)
$$\begin{cases} y = 0.1x + 2 \\ y = -0.3x - 2 \end{cases}$$

6)
$$\begin{cases} y = -2.75x - 2 \\ y = -1.5x + 3 \end{cases}$$

7)
$$\begin{cases} y = -0.75x - 8 \\ y = 1.75x + 2 \end{cases}$$

8)
$$\begin{cases} y = 0.4x - 9 \\ y = -0.2x - 6 \end{cases}$$

9)
$$\begin{cases} y = -0.2x - 2 \\ y = 0.6x - 6 \end{cases}$$

10)
$$\begin{cases} y = 3.25x - 3 \\ y = 1.25x + 5 \end{cases}$$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



For each system of equations determine the point of intersection in a graph.

$$1) \begin{cases} y = 0.25x - 8 \\ y = -1.25x + 4 \end{cases}$$

$$0.25x + 8 = -1.25x + 4$$

$$1.5x = 12$$

$$1x = 8$$

$$y = (0.25 \times 8) - 8$$

$$y = (-1.25 \times 8) + 4$$

$$2) \begin{cases} y = 0.4x - 8 \\ y = -0.6x + 2 \end{cases}$$

$$0.4x + 8 = -0.6x + 2$$

$$1x = 10$$

$$1x = 10$$

$$y = (0.4 \times 10) - 8$$

$$y = (-0.6 \times 10) + 2$$

$$3) \begin{cases} y = -0.6x + 5 \\ y = -0.2x + 1 \end{cases}$$

$$-0.6x + 5 = -0.2x + 1$$

$$-0.4x = -4$$

$$1x = 10$$

$$y = (-0.6 \times 10) + 5$$

$$y = (-0.2 \times 10) + 1$$

$$4) \begin{cases} y = -1.5x - 8 \\ y = -0.5x + 2 \end{cases}$$

$$-1.5x + 8 = -0.5x + 2$$

$$-1x = 10$$

$$1x = -10$$

$$y = (-1.5 \times -10) - 8$$

$$y = (-0.5 \times -10) + 2$$

$$5) \begin{cases} y = 0.1x + 2 \\ y = -0.3x - 2 \end{cases}$$

$$0.1x + 2 = -0.3x - 2$$

$$0.4x = -4$$

$$1x = -10$$

$$y = (0.1 \times -10) + 2$$

$$y = (-0.3 \times -10) - 2$$

$$6) \begin{cases} y = -2.75x - 2 \\ y = -1.5x + 3 \end{cases}$$

$$-2.75x - 2 = -1.5x + 3$$

$$-1.25x = 5$$

$$1x = -4$$

$$y = (-2.75 \times -4) - 2$$

$$y = (-1.5 \times -4) + 3$$

$$7) \begin{cases} y = -0.75x - 8 \\ y = 1.75x + 2 \end{cases}$$

$$-0.75x - 8 = 1.75x + 2$$

$$-2.5x = 10$$

$$1x = -4$$

$$y = (-0.75 \times -4) - 8$$

$$y = (1.75 \times -4) + 2$$

$$8) \begin{cases} y = 0.4x - 9 \\ y = -0.2x - 6 \end{cases}$$

$$0.4x - 9 = -0.2x - 6$$

$$0.6x = 3$$

$$1x = 5$$

$$y = (0.4 \times 5) - 9$$

$$y = (-0.2 \times 5) - 6$$

$$9) \begin{cases} y = -0.2x - 2 \\ y = 0.6x - 6 \end{cases}$$

$$-0.2x - 2 = 0.6x - 6$$

$$-0.8x = -4$$

$$1x = 5$$

$$y = (-0.2 \times 5) - 2$$

$$y = (0.6 \times 5) - 6$$

$$10) \begin{cases} y = 3.25x - 3 \\ y = 1.25x + 5 \end{cases}$$

$$3.25x - 3 = 1.25x + 5$$

$$2x = 8$$

$$1x = 4$$

$$y = (3.25 \times 4) - 3$$

$$y = (1.25 \times 4) + 5$$

Answers1. (8, -6)2. (10, -4)3. (10, -1)4. (-10, 7)5. (-10, 1)6. (-4, 9)7. (-4, -5)8. (5, -7)9. (5, -3)10. (4, 10)



For each system of equations determine the point of intersection in a graph.

1)
$$\begin{cases} y = 4.25x - 8 \\ y = 3.5x - 5 \end{cases}$$

2)
$$\begin{cases} y = -2.5x + 2 \\ y = -5.5x - 4 \end{cases}$$

3)
$$\begin{cases} y = 0.75x + 8 \\ y = -3.5x - 9 \end{cases}$$

4)
$$\begin{cases} y = -0.6x - 5 \\ y = 0.2x - 1 \end{cases}$$

5)
$$\begin{cases} y = 1.75x - 5 \\ y = 0.5x + 0 \end{cases}$$

6)
$$\begin{cases} y = -1.75x + 3 \\ y = 0.75x - 7 \end{cases}$$

7)
$$\begin{cases} y = 0.6x - 4 \\ y = 0.4x - 5 \end{cases}$$

8)
$$\begin{cases} y = 0.75x + 8 \\ y = -0.75x + 2 \end{cases}$$

9)
$$\begin{cases} y = -4.25x - 8 \\ y = -2.75x - 2 \end{cases}$$

10)
$$\begin{cases} y = 0.6x - 5 \\ y = 0.8x - 4 \end{cases}$$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



For each system of equations determine the point of intersection in a graph.

Answers

$$1) \begin{cases} y = 4.25x - 8 \\ y = 3.5x - 5 \end{cases}$$

$$4.25x + -8 = 3.5x + -5$$

$$0.75x = 3$$

$$1x = 4$$

$$y = (4.25 \times 4) + -8$$

$$y = (3.5 \times 4) + -5$$

$$2) \begin{cases} y = -2.5x + 2 \\ y = -5.5x - 4 \end{cases}$$

$$-2.5x + 2 = -5.5x + -4$$

$$3x = -6$$

$$1x = -2$$

$$y = (-2.5 \times -2) + 2$$

$$y = (-5.5 \times -2) + -4$$

$$3) \begin{cases} y = 0.75x + 8 \\ y = -3.5x - 9 \end{cases}$$

$$0.75x + 8 = -3.5x + -9$$

$$4.25x = -17$$

$$1x = -4$$

$$y = (0.75 \times -4) + 8$$

$$y = (-3.5 \times -4) + -9$$

$$4) \begin{cases} y = -0.6x - 5 \\ y = 0.2x - 1 \end{cases}$$

$$-0.6x + -5 = 0.2x + -1$$

$$-0.8x = 4$$

$$1x = -5$$

$$y = (-0.6 \times -5) + -5$$

$$y = (0.2 \times -5) + -1$$

$$5) \begin{cases} y = 1.75x - 5 \\ y = 0.5x + 0 \end{cases}$$

$$1.75x + -5 = 0.5x + 0$$

$$1.25x = 5$$

$$1x = 4$$

$$y = (1.75 \times 4) + -5$$

$$y = (0.5 \times 4) + 0$$

$$6) \begin{cases} y = -1.75x + 3 \\ y = 0.75x - 7 \end{cases}$$

$$-1.75x + 3 = 0.75x + -7$$

$$-2.5x = -10$$

$$1x = 4$$

$$y = (-1.75 \times 4) + 3$$

$$y = (0.75 \times 4) + -7$$

$$7) \begin{cases} y = 0.6x - 4 \\ y = 0.4x - 5 \end{cases}$$

$$0.6x + -4 = 0.4x + -5$$

$$0.2x = -1$$

$$1x = -5$$

$$y = (0.6 \times -5) + -4$$

$$y = (0.4 \times -5) + -5$$

$$8) \begin{cases} y = 0.75x + 8 \\ y = -0.75x + 2 \end{cases}$$

$$0.75x + 8 = -0.75x + 2$$

$$1.5x = -6$$

$$1x = -4$$

$$y = (0.75 \times -4) + 8$$

$$y = (-0.75 \times -4) + 2$$

$$9) \begin{cases} y = -4.25x - 8 \\ y = -2.75x - 2 \end{cases}$$

$$-4.25x + -8 = -2.75x + -2$$

$$-1.5x = 6$$

$$1x = -4$$

$$y = (-4.25 \times -4) + -8$$

$$y = (-2.75 \times -4) + -2$$

$$10) \begin{cases} y = 0.6x - 5 \\ y = 0.8x - 4 \end{cases}$$

$$0.6x + -5 = 0.8x + -4$$

$$-0.2x = 1$$

$$1x = -5$$

$$y = (0.6 \times -5) + -5$$

$$y = (0.8 \times -5) + -4$$

1. (4, 9)2. (-2, 7)3. (-4, 5)4. (-5, -2)5. (4, 2)6. (4, -4)7. (-5, -7)8. (-4, 5)9. (-4, 9)10. (-5, -8)



For each system of equations determine the point of intersection in a graph.

1)
$$\begin{cases} y = -2.75x + 3 \\ y = -0.75x - 5 \end{cases}$$

2)
$$\begin{cases} y = -1.75x - 6 \\ y = -0.5x - 1 \end{cases}$$

3)
$$\begin{cases} y = 0.8x + 1 \\ y = 0.3x - 4 \end{cases}$$

4)
$$\begin{cases} y = 6.5x + 3 \\ y = 0.5x - 9 \end{cases}$$

5)
$$\begin{cases} y = -0.5x - 6 \\ y = -0.75x - 4 \end{cases}$$

6)
$$\begin{cases} y = 0.6x - 8 \\ y = -0.5x + 3 \end{cases}$$

7)
$$\begin{cases} y = 0.5x + 1 \\ y = -0.2x - 6 \end{cases}$$

8)
$$\begin{cases} y = 0.5x - 2 \\ y = 1.5x - 6 \end{cases}$$

9)
$$\begin{cases} y = 1.5x - 9 \\ y = -0.2x + 8 \end{cases}$$

10)
$$\begin{cases} y = -1.5x - 2 \\ y = 1.25x + 9 \end{cases}$$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



For each system of equations determine the point of intersection in a graph.

$$1) \begin{cases} y = -2.75x + 3 \\ y = -0.75x - 5 \end{cases}$$

$$-2.75x + 3 = -0.75x - 5$$

$$-2x = -8$$

$$1x = 4$$

$$y = (-2.75 \times 4) + 3$$

$$y = (-0.75 \times 4) - 5$$

$$2) \begin{cases} y = -1.75x - 6 \\ y = -0.5x - 1 \end{cases}$$

$$-1.75x - 6 = -0.5x - 1$$

$$-1.25x = 5$$

$$1x = -4$$

$$y = (-1.75 \times -4) - 6$$

$$y = (-0.5 \times -4) - 1$$

$$3) \begin{cases} y = 0.8x + 1 \\ y = 0.3x - 4 \end{cases}$$

$$0.8x + 1 = 0.3x - 4$$

$$0.5x = -5$$

$$1x = -10$$

$$y = (0.8 \times -10) + 1$$

$$y = (0.3 \times -10) - 4$$

$$4) \begin{cases} y = 6.5x + 3 \\ y = 0.5x - 9 \end{cases}$$

$$6.5x + 3 = 0.5x - 9$$

$$6x = -12$$

$$1x = -2$$

$$y = (6.5 \times -2) + 3$$

$$y = (0.5 \times -2) - 9$$

$$5) \begin{cases} y = -0.5x - 6 \\ y = -0.75x - 4 \end{cases}$$

$$-0.5x - 6 = -0.75x - 4$$

$$0.25x = 2$$

$$1x = 8$$

$$y = (-0.5 \times 8) - 6$$

$$y = (-0.75 \times 8) - 4$$

$$6) \begin{cases} y = 0.6x - 8 \\ y = -0.5x + 3 \end{cases}$$

$$0.6x - 8 = -0.5x + 3$$

$$1.1x = 11$$

$$1x = 10$$

$$y = (0.6 \times 10) - 8$$

$$y = (-0.5 \times 10) + 3$$

$$7) \begin{cases} y = 0.5x + 1 \\ y = -0.2x - 6 \end{cases}$$

$$0.5x + 1 = -0.2x - 6$$

$$0.7x = -7$$

$$1x = -10$$

$$y = (0.5 \times -10) + 1$$

$$y = (-0.2 \times -10) - 6$$

$$8) \begin{cases} y = 0.5x - 2 \\ y = 1.5x - 6 \end{cases}$$

$$0.5x - 2 = 1.5x - 6$$

$$-1x = -4$$

$$1x = 4$$

$$y = (0.5 \times 4) - 2$$

$$y = (1.5 \times 4) - 6$$

$$9) \begin{cases} y = 1.5x - 9 \\ y = -0.2x + 8 \end{cases}$$

$$1.5x - 9 = -0.2x + 8$$

$$1.7x = 17$$

$$1x = 10$$

$$y = (1.5 \times 10) - 9$$

$$y = (-0.2 \times 10) + 8$$

$$10) \begin{cases} y = -1.5x - 2 \\ y = 1.25x + 9 \end{cases}$$

$$-1.5x - 2 = 1.25x + 9$$

$$-2.75x = 11$$

$$1x = -4$$

$$y = (-1.5 \times -4) - 2$$

$$y = (1.25 \times -4) + 9$$

Answers

1. (4, -8)

2. (-4, 1)

3. (-10, -7)

4. (-2, -10)

5. (8, -10)

6. (10, -2)

7. (-10, -4)

8. (4, 0)

9. (10, 6)

10. (-4, 4)