



Identifying Point of Intersection with Equations

Name: _____

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

Answers

1)
$$\begin{cases} y = 1.5x + 2 \\ y = 5.5x - 6 \end{cases}$$

2)
$$\begin{cases} y = 0.7x - 2 \\ y = 0.6x - 3 \end{cases}$$

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

4)
$$\begin{cases} y = -4.5x - 9 \\ y = -3.25x - 4 \end{cases}$$

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

6)
$$\begin{cases} y = 0.1x - 1 \\ y = -0.5x + 5 \end{cases}$$

7)
$$\begin{cases} y = 0.1x + 9 \\ y = -0.2x + 6 \end{cases}$$

8)
$$\begin{cases} y = 0.5x - 5 \\ y = 0.75x - 7 \end{cases}$$

9)
$$\begin{cases} y = -0.5x + 2 \\ y = 2.25x - 9 \end{cases}$$

10)
$$\begin{cases} y = 4.25x - 9 \\ y = 3.25x - 5 \end{cases}$$

1. _____

2. _____

3. _____

4. _____

5. _____

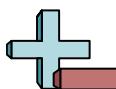
6. _____

7. _____

8. _____

9. _____

10. _____



Identifying Point of Intersection with Equations

Name: **Answer Key**

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

1)
$$\begin{cases} y = 1.5x + 2 \\ y = 5.5x - 6 \end{cases}$$

$$1.5x + 2 = 5.5x - 6$$

$$-4x = -8$$

$$1x = 2$$

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

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

2)
$$\begin{cases} y = 0.7x - 2 \\ y = 0.6x - 3 \end{cases}$$

$$0.7x - 2 = 0.6x - 3$$

$$0.1x = -1$$

$$1x = -10$$

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

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

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

$$-0.5x - 4 = -0.6x - 3$$

$$0.1x = 1$$

$$1x = 10$$

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

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

4)
$$\begin{cases} y = -4.5x - 9 \\ y = -3.25x - 4 \end{cases}$$

$$-4.5x - 9 = -3.25x - 4$$

$$-1.25x = 5$$

$$1x = -4$$

$$y = (-4.5 \times -4) - 9$$

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

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

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

$$-1.4x = 14$$

$$1x = -10$$

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

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

6)
$$\begin{cases} y = 0.1x - 1 \\ y = -0.5x + 5 \end{cases}$$

$$0.1x - 1 = -0.5x + 5$$

$$0.6x = 6$$

$$1x = 10$$

$$y = (0.1 \times 10) - 1$$

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

7)
$$\begin{cases} y = 0.1x + 9 \\ y = -0.2x + 6 \end{cases}$$

$$0.1x + 9 = -0.2x + 6$$

$$0.3x = -3$$

$$1x = -10$$

$$y = (0.1 \times -10) + 9$$

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

8)
$$\begin{cases} y = 0.5x - 5 \\ y = 0.75x - 7 \end{cases}$$

$$0.5x - 5 = 0.75x - 7$$

$$-0.25x = -2$$

$$1x = 8$$

$$y = (0.5 \times 8) - 5$$

$$y = (0.75 \times 8) - 7$$

9)
$$\begin{cases} y = -0.5x + 2 \\ y = 2.25x - 9 \end{cases}$$

$$-0.5x + 2 = 2.25x - 9$$

$$-2.75x = -11$$

$$1x = 4$$

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

$$y = (2.25 \times 4) - 9$$

10)
$$\begin{cases} y = 4.25x - 9 \\ y = 3.25x - 5 \end{cases}$$

$$4.25x - 9 = 3.25x - 5$$

$$1x = 4$$

$$1x = 4$$

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

$$y = (3.25 \times 4) - 5$$

Answers1. (2, 5)2. (-10, -9)3. (10, -9)4. (-4, 9)5. (-10, 0)6. (10, 0)7. (-10, 8)8. (8, -1)9. (4, 0)10. (4, 8)



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

Answers

1)
$$\begin{cases} y = -0.1x - 3 \\ y = 0.6x + 4 \end{cases}$$

2)
$$\begin{cases} y = -0.1x - 9 \\ y = 0.1x - 7 \end{cases}$$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

3)
$$\begin{cases} y = -4.25x + 9 \\ y = -0.75x - 5 \end{cases}$$

4)
$$\begin{cases} y = -1.5x + 8 \\ y = -0.25x - 2 \end{cases}$$

5)
$$\begin{cases} y = -2.5x - 8 \\ y = -1.5x - 6 \end{cases}$$

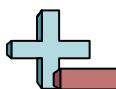
6)
$$\begin{cases} y = -2.25x - 5 \\ y = -2.5x - 6 \end{cases}$$

7)
$$\begin{cases} y = -2.25x - 5 \\ y = -2.75x - 7 \end{cases}$$

8)
$$\begin{cases} y = -2.5x - 5 \\ y = -9.5x + 9 \end{cases}$$

9)
$$\begin{cases} y = 0.7x - 2 \\ y = -0.4x + 9 \end{cases}$$

10)
$$\begin{cases} y = -0.1x + 4 \\ y = 0.8x - 5 \end{cases}$$



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Name: **Answer Key**

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

1)
$$\begin{cases} y = -0.1x - 3 \\ y = 0.6x + 4 \end{cases}$$

$$-0.1x - 3 = 0.6x + 4$$

$$-0.7x = 7$$

$$1x = -10$$

$$y = (-0.1 \times -10) - 3$$

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

2)
$$\begin{cases} y = -0.1x - 9 \\ y = 0.1x - 7 \end{cases}$$

$$-0.1x - 9 = 0.1x - 7$$

$$-0.2x = 2$$

$$1x = -10$$

$$y = (-0.1 \times -10) - 9$$

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

3)
$$\begin{cases} y = -4.25x + 9 \\ y = -0.75x - 5 \end{cases}$$

$$-4.25x + 9 = -0.75x - 5$$

$$-3.5x = -14$$

$$1x = 4$$

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

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

4)
$$\begin{cases} y = -1.5x + 8 \\ y = -0.25x - 2 \end{cases}$$

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

$$-1.25x = -10$$

$$1x = 8$$

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

$$y = (-0.25 \times 8) - 2$$

5)
$$\begin{cases} y = -2.5x - 8 \\ y = -1.5x - 6 \end{cases}$$

$$-2.5x - 8 = -1.5x - 6$$

$$-1x = 2$$

$$1x = -2$$

$$y = (-2.5 \times -2) - 8$$

$$y = (-1.5 \times -2) - 6$$

6)
$$\begin{cases} y = -2.25x - 5 \\ y = -2.5x - 6 \end{cases}$$

$$-2.25x - 5 = -2.5x - 6$$

$$0.25x = -1$$

$$1x = -4$$

$$y = (-2.25 \times -4) - 5$$

$$y = (-2.5 \times -4) - 6$$

7)
$$\begin{cases} y = -2.25x - 5 \\ y = -2.75x - 7 \end{cases}$$

$$-2.25x - 5 = -2.75x - 7$$

$$0.5x = -2$$

$$1x = -4$$

$$y = (-2.25 \times -4) - 5$$

$$y = (-2.75 \times -4) - 7$$

8)
$$\begin{cases} y = -2.5x - 5 \\ y = -9.5x + 9 \end{cases}$$

$$-2.5x - 5 = -9.5x + 9$$

$$7x = 14$$

$$1x = 2$$

$$y = (-2.5 \times 2) - 5$$

$$y = (-9.5 \times 2) + 9$$

9)
$$\begin{cases} y = 0.7x - 2 \\ y = -0.4x + 9 \end{cases}$$

$$0.7x - 2 = -0.4x + 9$$

$$1.1x = 11$$

$$1x = 10$$

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

$$y = (-0.4 \times 10) + 9$$

10)
$$\begin{cases} y = -0.1x + 4 \\ y = 0.8x - 5 \end{cases}$$

$$-0.1x + 4 = 0.8x - 5$$

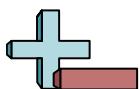
$$-0.9x = -9$$

$$1x = 10$$

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

$$y = (0.8 \times 10) - 5$$

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



Identifying Point of Intersection with Equations

Name: _____

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

Answers

1)
$$\begin{cases} y = -1.3x - 3 \\ y = -0.4x + 6 \end{cases}$$

2)
$$\begin{cases} y = 1.75x + 1 \\ y = 3.25x - 5 \end{cases}$$

3)
$$\begin{cases} y = -1.5x + 4 \\ y = -1.75x + 5 \end{cases}$$

4)
$$\begin{cases} y = 1.25x + 2 \\ y = 0.5x - 1 \end{cases}$$

5)
$$\begin{cases} y = -0.25x + 8 \\ y = -2.25x + 0 \end{cases}$$

6)
$$\begin{cases} y = 0.25x + 7 \\ y = -0.5x + 4 \end{cases}$$

7)
$$\begin{cases} y = -0.25x - 5 \\ y = -0.75x - 9 \end{cases}$$

8)
$$\begin{cases} y = 0.7x - 3 \\ y = 0.6x - 2 \end{cases}$$

9)
$$\begin{cases} y = 0.25x + 2 \\ y = 0.5x + 1 \end{cases}$$

10)
$$\begin{cases} y = -2.5x + 0 \\ y = -0.5x + 8 \end{cases}$$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Identifying Point of Intersection with Equations

Name: **Answer Key**

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

1)
$$\begin{cases} y = -1.3x - 3 \\ y = -0.4x + 6 \end{cases}$$

$$-1.3x - 3 = -0.4x + 6$$

$$-0.9x = 9$$

$$1x = -10$$

$$y = (-1.3 \times -10) - 3$$

$$y = (-0.4 \times -10) + 6$$

2)
$$\begin{cases} y = 1.75x + 1 \\ y = 3.25x - 5 \end{cases}$$

$$1.75x + 1 = 3.25x - 5$$

$$-1.5x = -6$$

$$1x = 4$$

$$y = (1.75 \times 4) + 1$$

$$y = (3.25 \times 4) - 5$$

3)
$$\begin{cases} y = -1.5x + 4 \\ y = -1.75x + 5 \end{cases}$$

$$-1.5x + 4 = -1.75x + 5$$

$$0.25x = 1$$

$$1x = 4$$

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

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

4)
$$\begin{cases} y = 1.25x + 2 \\ y = 0.5x - 1 \end{cases}$$

$$1.25x + 2 = 0.5x - 1$$

$$0.75x = -3$$

$$1x = -4$$

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

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

5)
$$\begin{cases} y = -0.25x + 8 \\ y = -2.25x + 0 \end{cases}$$

$$-0.25x + 8 = -2.25x + 0$$

$$2x = -8$$

$$1x = -4$$

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

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

6)
$$\begin{cases} y = 0.25x + 7 \\ y = -0.5x + 4 \end{cases}$$

$$0.25x + 7 = -0.5x + 4$$

$$0.75x = -3$$

$$1x = -4$$

$$y = (0.25 \times -4) + 7$$

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

7)
$$\begin{cases} y = -0.25x - 5 \\ y = -0.75x - 9 \end{cases}$$

$$-0.25x - 5 = -0.75x - 9$$

$$0.5x = -4$$

$$1x = -8$$

$$y = (-0.25 \times -8) - 5$$

$$y = (-0.75 \times -8) - 9$$

8)
$$\begin{cases} y = 0.7x - 3 \\ y = 0.6x - 2 \end{cases}$$

$$0.7x - 3 = 0.6x - 2$$

$$0.1x = 1$$

$$1x = 10$$

$$y = (0.7 \times 10) - 3$$

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

9)
$$\begin{cases} y = 0.25x + 2 \\ y = 0.5x + 1 \end{cases}$$

$$0.25x + 2 = 0.5x + 1$$

$$-0.25x = -1$$

$$1x = 4$$

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

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

10)
$$\begin{cases} y = -2.5x + 0 \\ y = -0.5x + 8 \end{cases}$$

$$-2.5x + 0 = -0.5x + 8$$

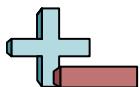
$$-2x = 8$$

$$1x = -4$$

$$y = (-2.5 \times -4) + 0$$

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

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



Identifying Point of Intersection with Equations

Name: _____

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

Answers

1)
$$\begin{cases} y = 1.25x - 8 \\ y = 0.25x + 0 \end{cases}$$

2)
$$\begin{cases} y = 0.8x + 5 \\ y = 0.2x - 1 \end{cases}$$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

3)
$$\begin{cases} y = -2.25x - 3 \\ y = -2.5x - 4 \end{cases}$$

4)
$$\begin{cases} y = 5.5x - 1 \\ y = 8.5x - 7 \end{cases}$$

5)
$$\begin{cases} y = -3.75x - 5 \\ y = -1.25x + 5 \end{cases}$$

6)
$$\begin{cases} y = -0.6x + 3 \\ y = 0.2x - 1 \end{cases}$$

7)
$$\begin{cases} y = 0.7x - 5 \\ y = 0.9x - 7 \end{cases}$$

8)
$$\begin{cases} y = -2.25x + 1 \\ y = -4.25x - 7 \end{cases}$$

9)
$$\begin{cases} y = 0.75x + 1 \\ y = 1.75x + 9 \end{cases}$$

10)
$$\begin{cases} y = -1.75x + 8 \\ y = -1.25x + 4 \end{cases}$$



Identifying Point of Intersection with Equations

Name: **Answer Key**

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

Answers

1)
$$\begin{cases} y = 1.25x - 8 \\ y = 0.25x + 0 \end{cases}$$

 $1.25x - 8 = 0.25x + 0$
 $1x = 8$
 $1x = 8$
 $y = (1.25 \times 8) - 8$
 $y = (0.25 \times 8) + 0$

2)
$$\begin{cases} y = 0.8x + 5 \\ y = 0.2x - 1 \end{cases}$$

 $0.8x + 5 = 0.2x - 1$
 $0.6x = -6$
 $1x = -10$
 $y = (0.8 \times -10) + 5$
 $y = (0.2 \times -10) - 1$

3)
$$\begin{cases} y = -2.25x - 3 \\ y = -2.5x - 4 \end{cases}$$

 $-2.25x - 3 = -2.5x - 4$
 $0.25x = -1$
 $1x = -4$
 $y = (-2.25 \times -4) - 3$
 $y = (-2.5 \times -4) - 4$

4)
$$\begin{cases} y = 5.5x - 1 \\ y = 8.5x - 7 \end{cases}$$

 $5.5x - 1 = 8.5x - 7$
 $-3x = -6$
 $1x = 2$
 $y = (5.5 \times 2) - 1$
 $y = (8.5 \times 2) - 7$

5)
$$\begin{cases} y = -3.75x - 5 \\ y = -1.25x + 5 \end{cases}$$

 $-3.75x - 5 = -1.25x + 5$
 $-2.5x = 10$
 $1x = -4$
 $y = (-3.75 \times -4) - 5$
 $y = (-1.25 \times -4) + 5$

6)
$$\begin{cases} y = -0.6x + 3 \\ y = 0.2x - 1 \end{cases}$$

 $-0.6x + 3 = 0.2x - 1$
 $-0.8x = -4$
 $1x = 5$
 $y = (-0.6 \times 5) + 3$
 $y = (0.2 \times 5) - 1$

7)
$$\begin{cases} y = 0.7x - 5 \\ y = 0.9x - 7 \end{cases}$$

 $0.7x - 5 = 0.9x - 7$
 $-0.2x = -2$
 $1x = 10$
 $y = (0.7 \times 10) - 5$
 $y = (0.9 \times 10) - 7$

8)
$$\begin{cases} y = -2.25x + 1 \\ y = -4.25x - 7 \end{cases}$$

 $-2.25x + 1 = -4.25x - 7$
 $2x = -8$
 $1x = -4$
 $y = (-2.25 \times -4) + 1$
 $y = (-4.25 \times -4) - 7$

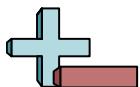
9)
$$\begin{cases} y = 0.75x + 1 \\ y = 1.75x + 9 \end{cases}$$

 $0.75x + 1 = 1.75x + 9$
 $-1x = 8$
 $1x = -8$
 $y = (0.75 \times -8) + 1$
 $y = (1.75 \times -8) + 9$

10)
$$\begin{cases} y = -1.75x + 8 \\ y = -1.25x + 4 \end{cases}$$

 $-1.75x + 8 = -1.25x + 4$
 $-0.5x = -4$
 $1x = 8$
 $y = (-1.75 \times 8) + 8$
 $y = (-1.25 \times 8) + 4$

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



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

Answers

1)
$$\begin{cases} y = 0.9x + 1 \\ y = 1.7x - 7 \end{cases}$$

2)
$$\begin{cases} y = -0.6x + 1 \\ y = -1.2x - 2 \end{cases}$$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

3)
$$\begin{cases} y = 0.7x + 0 \\ y = 0.3x - 4 \end{cases}$$

4)
$$\begin{cases} y = -0.4x + 7 \\ y = -0.6x + 9 \end{cases}$$

5)
$$\begin{cases} y = -1.25x + 4 \\ y = -4.5x - 9 \end{cases}$$

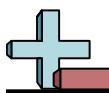
6)
$$\begin{cases} y = 5.5x - 5 \\ y = -0.5x + 7 \end{cases}$$

7)
$$\begin{cases} y = 1.75x - 5 \\ y = 0.5x + 5 \end{cases}$$

8)
$$\begin{cases} y = -1.2x + 2 \\ y = -1.3x + 3 \end{cases}$$

9)
$$\begin{cases} y = -0.25x - 2 \\ y = 1.5x - 9 \end{cases}$$

10)
$$\begin{cases} y = -0.2x + 3 \\ y = -1.2x + 8 \end{cases}$$



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

1)
$$\begin{cases} y = 0.9x + 1 \\ y = 1.7x - 7 \end{cases}$$

$$\begin{aligned} 0.9x+1 &= 1.7x- 7 \\ -0.8x &= -8 \\ 1x &= 10 \\ y &= (0.9 \times 10) + 1 \\ y &= (1.7 \times 10) - 7 \end{aligned}$$

2)
$$\begin{cases} y = -0.6x + 1 \\ y = -1.2x - 2 \end{cases}$$

$$\begin{aligned} -0.6x+1 &= -1.2x- 2 \\ 0.6x &= -3 \\ 1x &= -5 \\ y &= (-0.6 \times -5) + 1 \\ y &= (-1.2 \times -5) - 2 \end{aligned}$$

3)
$$\begin{cases} y = 0.7x + 0 \\ y = 0.3x - 4 \end{cases}$$

$$\begin{aligned} 0.7x+0 &= 0.3x- 4 \\ 0.4x &= -4 \\ 1x &= -10 \\ y &= (0.7 \times -10) + 0 \\ y &= (0.3 \times -10) - 4 \end{aligned}$$

4)
$$\begin{cases} y = -0.4x + 7 \\ y = -0.6x + 9 \end{cases}$$

$$\begin{aligned} -0.4x+7 &= -0.6x+9 \\ 0.2x &= 2 \\ 1x &= 10 \\ y &= (-0.4 \times 10) + 7 \\ y &= (-0.6 \times 10) + 9 \end{aligned}$$

5)
$$\begin{cases} y = -1.25x + 4 \\ y = -4.5x - 9 \end{cases}$$

$$\begin{aligned} -1.25x+4 &= -4.5x- 9 \\ 3.25x &= -13 \\ 1x &= -4 \\ y &= (-1.25 \times -4) + 4 \\ y &= (-4.5 \times -4) - 9 \end{aligned}$$

6)
$$\begin{cases} y = 5.5x - 5 \\ y = -0.5x + 7 \end{cases}$$

$$\begin{aligned} 5.5x- 5 &= -0.5x+7 \\ 6x &= 12 \\ 1x &= 2 \\ y &= (5.5 \times 2) - 5 \\ y &= (-0.5 \times 2) + 7 \end{aligned}$$

7)
$$\begin{cases} y = 1.75x - 5 \\ y = 0.5x + 5 \end{cases}$$

$$\begin{aligned} 1.75x- 5 &= 0.5x+5 \\ 1.25x &= 10 \\ 1x &= 8 \\ y &= (1.75 \times 8) - 5 \\ y &= (0.5 \times 8) + 5 \end{aligned}$$

8)
$$\begin{cases} y = -1.2x + 2 \\ y = -1.3x + 3 \end{cases}$$

$$\begin{aligned} -1.2x+2 &= -1.3x+3 \\ 0.1x &= 1 \\ 1x &= 10 \\ y &= (-1.2 \times 10) + 2 \\ y &= (-1.3 \times 10) + 3 \end{aligned}$$

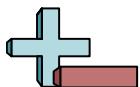
9)
$$\begin{cases} y = -0.25x - 2 \\ y = 1.5x - 9 \end{cases}$$

$$\begin{aligned} -0.25x- 2 &= 1.5x- 9 \\ -1.75x &= -7 \\ 1x &= 4 \\ y &= (-0.25 \times 4) - 2 \\ y &= (1.5 \times 4) - 9 \end{aligned}$$

10)
$$\begin{cases} y = -0.2x + 3 \\ y = -1.2x + 8 \end{cases}$$

$$\begin{aligned} -0.2x+3 &= -1.2x+8 \\ 1x &= 5 \\ 1x &= 5 \\ y &= (-0.2 \times 5) + 3 \\ y &= (-1.2 \times 5) + 8 \end{aligned}$$

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



Identifying Point of Intersection with Equations

Name: _____

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

1)
$$\begin{cases} y = 0.1x + 2 \\ y = 0.5x - 2 \end{cases}$$

2)
$$\begin{cases} y = -1.3x + 5 \\ y = -0.4x - 4 \end{cases}$$

3)
$$\begin{cases} y = -0.2x + 8 \\ y = 1.5x - 9 \end{cases}$$

4)
$$\begin{cases} y = -4.25x + 8 \\ y = -2.5x + 1 \end{cases}$$

5)
$$\begin{cases} y = -1.5x - 3 \\ y = -0.5x + 5 \end{cases}$$

6)
$$\begin{cases} y = 0.3x - 9 \\ y = -0.5x - 1 \end{cases}$$

7)
$$\begin{cases} y = 0.3x + 1 \\ y = 0.5x - 1 \end{cases}$$

8)
$$\begin{cases} y = -0.2x + 0 \\ y = 0.4x - 6 \end{cases}$$

9)
$$\begin{cases} y = -1.5x + 1 \\ y = -3.5x - 3 \end{cases}$$

10)
$$\begin{cases} y = -0.25x - 2 \\ y = -0.5x + 0 \end{cases}$$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

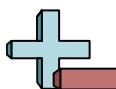
6. _____

7. _____

8. _____

9. _____

10. _____



Identifying Point of Intersection with Equations

Name: **Answer Key**

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

1)
$$\begin{cases} y = 0.1x + 2 \\ y = 0.5x - 2 \end{cases}$$

$$\begin{aligned} 0.1x+2 &= 0.5x-2 \\ -0.4x &= -4 \\ 1x &= 10 \\ y &= (0.1 \times 10) + 2 \\ y &= (0.5 \times 10) - 2 \end{aligned}$$

2)
$$\begin{cases} y = -1.3x + 5 \\ y = -0.4x - 4 \end{cases}$$

$$\begin{aligned} -1.3x+5 &= -0.4x-4 \\ -0.9x &= -9 \\ 1x &= 10 \\ y &= (-1.3 \times 10) + 5 \\ y &= (-0.4 \times 10) - 4 \end{aligned}$$

3)
$$\begin{cases} y = -0.2x + 8 \\ y = 1.5x - 9 \end{cases}$$

$$\begin{aligned} -0.2x+8 &= 1.5x-9 \\ -1.7x &= -17 \\ 1x &= 10 \\ y &= (-0.2 \times 10) + 8 \\ y &= (1.5 \times 10) - 9 \end{aligned}$$

4)
$$\begin{cases} y = -4.25x + 8 \\ y = -2.5x + 1 \end{cases}$$

$$\begin{aligned} -4.25x+8 &= -2.5x+1 \\ -1.75x &= -7 \\ 1x &= 4 \\ y &= (-4.25 \times 4) + 8 \\ y &= (-2.5 \times 4) + 1 \end{aligned}$$

5)
$$\begin{cases} y = -1.5x - 3 \\ y = -0.5x + 5 \end{cases}$$

$$\begin{aligned} -1.5x-3 &= -0.5x+5 \\ -1x &= 8 \\ 1x &= -8 \\ y &= (-1.5 \times -8) - 3 \\ y &= (-0.5 \times -8) + 5 \end{aligned}$$

6)
$$\begin{cases} y = 0.3x - 9 \\ y = -0.5x - 1 \end{cases}$$

$$\begin{aligned} 0.3x-9 &= -0.5x-1 \\ 0.8x &= 8 \\ 1x &= 10 \\ y &= (0.3 \times 10) - 9 \\ y &= (-0.5 \times 10) - 1 \end{aligned}$$

7)
$$\begin{cases} y = 0.3x + 1 \\ y = 0.5x - 1 \end{cases}$$

$$\begin{aligned} 0.3x+1 &= 0.5x-1 \\ -0.2x &= -2 \\ 1x &= 10 \\ y &= (0.3 \times 10) + 1 \\ y &= (0.5 \times 10) - 1 \end{aligned}$$

8)
$$\begin{cases} y = -0.2x + 0 \\ y = 0.4x - 6 \end{cases}$$

$$\begin{aligned} -0.2x+0 &= 0.4x-6 \\ -0.6x &= -6 \\ 1x &= 10 \\ y &= (-0.2 \times 10) + 0 \\ y &= (0.4 \times 10) - 6 \end{aligned}$$

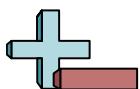
9)
$$\begin{cases} y = -1.5x + 1 \\ y = -3.5x - 3 \end{cases}$$

$$\begin{aligned} -1.5x+1 &= -3.5x-3 \\ 2x &= -4 \\ 1x &= -2 \\ y &= (-1.5 \times -2) + 1 \\ y &= (-3.5 \times -2) - 3 \end{aligned}$$

10)
$$\begin{cases} y = -0.25x - 2 \\ y = -0.5x + 0 \end{cases}$$

$$\begin{aligned} -0.25x-2 &= -0.5x+0 \\ 0.25x &= 2 \\ 1x &= 8 \\ y &= (-0.25 \times 8) - 2 \\ y &= (-0.5 \times 8) + 0 \end{aligned}$$

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



Identifying Point of Intersection with Equations

Name: _____

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

1)
$$\begin{cases} y = 0.5x - 2 \\ y = 1.75x + 3 \end{cases}$$

2)
$$\begin{cases} y = 1.8x + 9 \\ y = 0.2x - 7 \end{cases}$$

3)
$$\begin{cases} y = -0.75x - 8 \\ y = 2.75x + 6 \end{cases}$$

4)
$$\begin{cases} y = 2.75x + 8 \\ y = -1.25x - 8 \end{cases}$$

5)
$$\begin{cases} y = -0.4x + 6 \\ y = -0.1x + 3 \end{cases}$$

6)
$$\begin{cases} y = 0.5x + 4 \\ y = 0.9x + 0 \end{cases}$$

7)
$$\begin{cases} y = -4.75x + 9 \\ y = -1.75x - 3 \end{cases}$$

8)
$$\begin{cases} y = -1.5x + 6 \\ y = 1.5x + 0 \end{cases}$$

9)
$$\begin{cases} y = 0.2x - 1 \\ y = 0.8x + 5 \end{cases}$$

10)
$$\begin{cases} y = 2.5x + 7 \\ y = -1.25x - 8 \end{cases}$$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

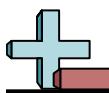
6. _____

7. _____

8. _____

9. _____

10. _____



Identifying Point of Intersection with Equations

Name: **Answer Key**

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

1)
$$\begin{cases} y = 0.5x - 2 \\ y = 1.75x + 3 \end{cases}$$

$$0.5x - 2 = 1.75x + 3$$

$$-1.25x = 5$$

$$1x = -4$$

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

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

2)
$$\begin{cases} y = 1.8x + 9 \\ y = 0.2x - 7 \end{cases}$$

$$1.8x + 9 = 0.2x - 7$$

$$1.6x = -16$$

$$1x = -10$$

$$y = (1.8 \times -10) + 9$$

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

3)
$$\begin{cases} y = -0.75x - 8 \\ y = 2.75x + 6 \end{cases}$$

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

$$-3.5x = 14$$

$$1x = -4$$

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

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

4)
$$\begin{cases} y = 2.75x + 8 \\ y = -1.25x - 8 \end{cases}$$

$$2.75x + 8 = -1.25x - 8$$

$$4x = -16$$

$$1x = -4$$

$$y = (2.75 \times -4) + 8$$

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

5)
$$\begin{cases} y = -0.4x + 6 \\ y = -0.1x + 3 \end{cases}$$

$$-0.4x + 6 = -0.1x + 3$$

$$-0.3x = -3$$

$$1x = 10$$

$$y = (-0.4 \times 10) + 6$$

$$y = (-0.1 \times 10) + 3$$

6)
$$\begin{cases} y = 0.5x + 4 \\ y = 0.9x + 0 \end{cases}$$

$$0.5x + 4 = 0.9x + 0$$

$$-0.4x = -4$$

$$1x = 10$$

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

$$y = (0.9 \times 10) + 0$$

7)
$$\begin{cases} y = -4.75x + 9 \\ y = -1.75x - 3 \end{cases}$$

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

$$-3x = -12$$

$$1x = 4$$

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

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

8)
$$\begin{cases} y = -1.5x + 6 \\ y = 1.5x + 0 \end{cases}$$

$$-1.5x + 6 = 1.5x + 0$$

$$-3x = -6$$

$$1x = 2$$

$$y = (-1.5 \times 2) + 6$$

$$y = (1.5 \times 2) + 0$$

9)
$$\begin{cases} y = 0.2x - 1 \\ y = 0.8x + 5 \end{cases}$$

$$0.2x - 1 = 0.8x + 5$$

$$-0.6x = 6$$

$$1x = -10$$

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

$$y = (0.8 \times -10) + 5$$

10)
$$\begin{cases} y = 2.5x + 7 \\ y = -1.25x - 8 \end{cases}$$

$$2.5x + 7 = -1.25x - 8$$

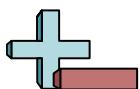
$$3.75x = -15$$

$$1x = -4$$

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

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

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



Identifying Point of Intersection with Equations

Name: _____

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

Answers

1)
$$\begin{cases} y = -0.25x + 7 \\ y = 2.25x - 3 \end{cases}$$

2)
$$\begin{cases} y = -7.5x + 6 \\ y = -3.5x - 2 \end{cases}$$

3)
$$\begin{cases} y = 2.25x - 1 \\ y = 3.5x - 6 \end{cases}$$

4)
$$\begin{cases} y = -1.5x - 9 \\ y = -0.6x + 0 \end{cases}$$

5)
$$\begin{cases} y = 0.25x - 3 \\ y = -1.25x + 3 \end{cases}$$

6)
$$\begin{cases} y = -0.5x + 9 \\ y = 0.75x - 1 \end{cases}$$

7)
$$\begin{cases} y = -0.4x + 2 \\ y = 0.2x + 8 \end{cases}$$

8)
$$\begin{cases} y = 7.5x - 7 \\ y = 4.5x - 1 \end{cases}$$

9)
$$\begin{cases} y = -2.75x - 1 \\ y = -1.5x + 4 \end{cases}$$

10)
$$\begin{cases} y = -0.5x - 8 \\ y = 0.1x - 2 \end{cases}$$

1. _____

2. _____

3. _____

4. _____

5. _____

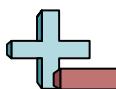
6. _____

7. _____

8. _____

9. _____

10. _____



Identifying Point of Intersection with Equations

Name: **Answer Key**

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

1)
$$\begin{cases} y = -0.25x + 7 \\ y = 2.25x - 3 \end{cases}$$

$$-0.25x + 7 = 2.25x - 3$$

$$-2.5x = -10$$

$$1x = 4$$

$$y = (-0.25 \times 4) + 7$$

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

2)
$$\begin{cases} y = -7.5x + 6 \\ y = -3.5x - 2 \end{cases}$$

$$-7.5x + 6 = -3.5x - 2$$

$$-4x = -8$$

$$1x = 2$$

$$y = (-7.5 \times 2) + 6$$

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

3)
$$\begin{cases} y = 2.25x - 1 \\ y = 3.5x - 6 \end{cases}$$

$$2.25x - 1 = 3.5x - 6$$

$$-1.25x = -5$$

$$1x = 4$$

$$y = (2.25 \times 4) - 1$$

$$y = (3.5 \times 4) - 6$$

4)
$$\begin{cases} y = -1.5x - 9 \\ y = -0.6x + 0 \end{cases}$$

$$-1.5x - 9 = -0.6x + 0$$

$$-0.9x = 9$$

$$1x = -10$$

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

$$y = (-0.6 \times -10) + 0$$

5)
$$\begin{cases} y = 0.25x - 3 \\ y = -1.25x + 3 \end{cases}$$

$$0.25x - 3 = -1.25x + 3$$

$$1.5x = 6$$

$$1x = 4$$

$$y = (0.25 \times 4) - 3$$

$$y = (-1.25 \times 4) + 3$$

6)
$$\begin{cases} y = -0.5x + 9 \\ y = 0.75x - 1 \end{cases}$$

$$-0.5x + 9 = 0.75x - 1$$

$$-1.25x = -10$$

$$1x = 8$$

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

$$y = (0.75 \times 8) - 1$$

7)
$$\begin{cases} y = -0.4x + 2 \\ y = 0.2x + 8 \end{cases}$$

$$-0.4x + 2 = 0.2x + 8$$

$$-0.6x = 6$$

$$1x = -10$$

$$y = (-0.4 \times -10) + 2$$

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

8)
$$\begin{cases} y = 7.5x - 7 \\ y = 4.5x - 1 \end{cases}$$

$$7.5x - 7 = 4.5x - 1$$

$$3x = 6$$

$$1x = 2$$

$$y = (7.5 \times 2) - 7$$

$$y = (4.5 \times 2) - 1$$

9)
$$\begin{cases} y = -2.75x - 1 \\ y = -1.5x + 4 \end{cases}$$

$$-2.75x - 1 = -1.5x + 4$$

$$-1.25x = 5$$

$$1x = -4$$

$$y = (-2.75 \times -4) - 1$$

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

10)
$$\begin{cases} y = -0.5x - 8 \\ y = 0.1x - 2 \end{cases}$$

$$-0.5x - 8 = 0.1x - 2$$

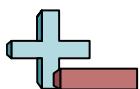
$$-0.6x = 6$$

$$1x = -10$$

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

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

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



Identifying Point of Intersection with Equations

Name: _____

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

Answers

1)
$$\begin{cases} y = 1.5x - 8 \\ y = -0.1x + 8 \end{cases}$$

2)
$$\begin{cases} y = -1.3x - 6 \\ y = -0.1x + 6 \end{cases}$$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

3)
$$\begin{cases} y = -0.6x + 7 \\ y = -0.4x + 8 \end{cases}$$

4)
$$\begin{cases} y = 0.75x + 5 \\ y = 3.5x - 6 \end{cases}$$

5)
$$\begin{cases} y = -0.1x + 2 \\ y = -0.3x + 0 \end{cases}$$

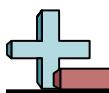
6)
$$\begin{cases} y = -2.5x - 8 \\ y = -0.75x - 1 \end{cases}$$

7)
$$\begin{cases} y = -1.3x + 4 \\ y = -1.5x + 6 \end{cases}$$

8)
$$\begin{cases} y = 0.2x - 2 \\ y = -0.4x + 1 \end{cases}$$

9)
$$\begin{cases} y = 0.4x + 5 \\ y = 0.9x + 0 \end{cases}$$

10)
$$\begin{cases} y = 3.5x + 4 \\ y = 1.5x + 0 \end{cases}$$



Identifying Point of Intersection with Equations

Name: **Answer Key**

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

1)
$$\begin{cases} y = 1.5x - 8 \\ y = -0.1x + 8 \end{cases}$$

$$1.5x - 8 = -0.1x + 8$$

$$1.6x = 16$$

$$1x = 10$$

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

$$y = (-0.1 \times 10) + 8$$

2)
$$\begin{cases} y = -1.3x - 6 \\ y = -0.1x + 6 \end{cases}$$

$$-1.3x - 6 = -0.1x + 6$$

$$-1.2x = 12$$

$$1x = -10$$

$$y = (-1.3 \times -10) - 6$$

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

3)
$$\begin{cases} y = -0.6x + 7 \\ y = -0.4x + 8 \end{cases}$$

$$-0.6x + 7 = -0.4x + 8$$

$$-0.2x = 1$$

$$1x = -5$$

$$y = (-0.6 \times -5) + 7$$

$$y = (-0.4 \times -5) + 8$$

4)
$$\begin{cases} y = 0.75x + 5 \\ y = 3.5x - 6 \end{cases}$$

$$0.75x + 5 = 3.5x - 6$$

$$-2.75x = -11$$

$$1x = 4$$

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

$$y = (3.5 \times 4) - 6$$

5)
$$\begin{cases} y = -0.1x + 2 \\ y = -0.3x + 0 \end{cases}$$

$$-0.1x + 2 = -0.3x + 0$$

$$0.2x = -2$$

$$1x = -10$$

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

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

6)
$$\begin{cases} y = -2.5x - 8 \\ y = -0.75x - 1 \end{cases}$$

$$-2.5x - 8 = -0.75x - 1$$

$$-1.75x = 7$$

$$1x = -4$$

$$y = (-2.5 \times -4) - 8$$

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

7)
$$\begin{cases} y = -1.3x + 4 \\ y = -1.5x + 6 \end{cases}$$

$$-1.3x + 4 = -1.5x + 6$$

$$0.2x = 2$$

$$1x = 10$$

$$y = (-1.3 \times 10) + 4$$

$$y = (-1.5 \times 10) + 6$$

8)
$$\begin{cases} y = 0.2x - 2 \\ y = -0.4x + 1 \end{cases}$$

$$0.2x - 2 = -0.4x + 1$$

$$0.6x = 3$$

$$1x = 5$$

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

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

9)
$$\begin{cases} y = 0.4x + 5 \\ y = 0.9x + 0 \end{cases}$$

$$0.4x + 5 = 0.9x + 0$$

$$-0.5x = -5$$

$$1x = 10$$

$$y = (0.4 \times 10) + 5$$

$$y = (0.9 \times 10) + 0$$

10)
$$\begin{cases} y = 3.5x + 4 \\ y = 1.5x + 0 \end{cases}$$

$$3.5x + 4 = 1.5x + 0$$

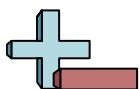
$$2x = -4$$

$$1x = -2$$

$$y = (3.5 \times -2) + 4$$

$$y = (1.5 \times -2) + 0$$

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



Identifying Point of Intersection with Equations

Name: _____

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

Answers

1)
$$\begin{cases} y = -0.2x - 2 \\ y = -0.4x - 4 \end{cases}$$

2)
$$\begin{cases} y = -4.25x - 8 \\ y = -0.25x + 8 \end{cases}$$

3)
$$\begin{cases} y = 3.5x + 5 \\ y = 3.25x + 4 \end{cases}$$

4)
$$\begin{cases} y = 6.5x + 9 \\ y = 4.5x + 5 \end{cases}$$

5)
$$\begin{cases} y = -2.5x - 8 \\ y = -0.5x - 4 \end{cases}$$

6)
$$\begin{cases} y = 0.5x - 6 \\ y = 5.5x + 4 \end{cases}$$

7)
$$\begin{cases} y = -0.1x + 5 \\ y = 0.6x - 2 \end{cases}$$

8)
$$\begin{cases} y = 1.5x - 7 \\ y = 0.1x + 7 \end{cases}$$

9)
$$\begin{cases} y = 0.3x - 5 \\ y = -0.3x + 1 \end{cases}$$

10)
$$\begin{cases} y = 1.8x - 2 \\ y = 0.4x + 5 \end{cases}$$

1. _____

2. _____

3. _____

4. _____

5. _____

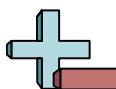
6. _____

7. _____

8. _____

9. _____

10. _____



Identifying Point of Intersection with Equations

Name: **Answer Key**

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

1)
$$\begin{cases} y = -0.2x - 2 \\ y = -0.4x - 4 \end{cases}$$

$$-0.2x - 2 = -0.4x - 4$$

$$0.2x = -2$$

$$1x = -10$$

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

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

2)
$$\begin{cases} y = -4.25x - 8 \\ y = -0.25x + 8 \end{cases}$$

$$-4.25x - 8 = -0.25x + 8$$

$$-4x = 16$$

$$1x = -4$$

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

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

3)
$$\begin{cases} y = 3.5x + 5 \\ y = 3.25x + 4 \end{cases}$$

$$3.5x + 5 = 3.25x + 4$$

$$0.25x = -1$$

$$1x = -4$$

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

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

4)
$$\begin{cases} y = 6.5x + 9 \\ y = 4.5x + 5 \end{cases}$$

$$6.5x + 9 = 4.5x + 5$$

$$2x = -4$$

$$1x = -2$$

$$y = (6.5 \times -2) + 9$$

$$y = (4.5 \times -2) + 5$$

5)
$$\begin{cases} y = -2.5x - 8 \\ y = -0.5x - 4 \end{cases}$$

$$-2.5x - 8 = -0.5x - 4$$

$$-2x = 4$$

$$1x = -2$$

$$y = (-2.5 \times -2) - 8$$

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

6)
$$\begin{cases} y = 0.5x - 6 \\ y = 5.5x + 4 \end{cases}$$

$$0.5x - 6 = 5.5x + 4$$

$$-5x = 10$$

$$1x = -2$$

$$y = (0.5 \times -2) - 6$$

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

7)
$$\begin{cases} y = -0.1x + 5 \\ y = 0.6x - 2 \end{cases}$$

$$-0.1x + 5 = 0.6x - 2$$

$$-0.7x = -7$$

$$1x = 10$$

$$y = (-0.1 \times 10) + 5$$

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

8)
$$\begin{cases} y = 1.5x - 7 \\ y = 0.1x + 7 \end{cases}$$

$$1.5x - 7 = 0.1x + 7$$

$$1.4x = 14$$

$$1x = 10$$

$$y = (1.5 \times 10) - 7$$

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

9)
$$\begin{cases} y = 0.3x - 5 \\ y = -0.3x + 1 \end{cases}$$

$$0.3x - 5 = -0.3x + 1$$

$$0.6x = 6$$

$$1x = 10$$

$$y = (0.3 \times 10) - 5$$

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

10)
$$\begin{cases} y = 1.8x - 2 \\ y = 0.4x + 5 \end{cases}$$

$$1.8x - 2 = 0.4x + 5$$

$$1.4x = 7$$

$$1x = 5$$

$$y = (1.8 \times 5) - 2$$

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

Answers1. (-10, 0)2. (-4, 9)3. (-4, -9)4. (-2, -4)5. (-2, -3)6. (-2, -7)7. (10, 4)8. (10, 8)9. (10, -2)10. (5, 7)