**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. _____



| 1-10 | 90 | 80 | 70 | 60 | 50 | 40 | 30 | 20 | 10 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|

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

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

$0.1x+2 = 0.5x- 2$
$-0.4x = -4$
$1x = 10$
$y = (0.1\times10)+2$
$y = (0.5\times10)- 2$

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

$-1.3x+5 = -0.4x- 4$
$-0.9x = -9$
$1x = 10$
$y = (-1.3\times10)+5$
$y = (-0.4\times10)- 4$

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

$-0.2x+8 = 1.5x- 9$
$-1.7x = -17$
$1x = 10$
$y = (-0.2\times10)+8$
$y = (1.5\times10)- 9$

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

$-4.25x+8 = -2.5x+1$
$-1.75x = -7$
$1x = 4$
$y = (-4.25\times4)+8$
$y = (-2.5\times4)+1$

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

$-1.5x- 3 = -0.5x+5$
$-1x = 8$
$1x = -8$
$y = (-1.5\times-8)- 3$
$y = (-0.5\times-8)+5$

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

$0.3x- 9 = -0.5x- 1$
$0.8x = 8$
$1x = 10$
$y = (0.3\times10)- 9$
$y = (-0.5\times10)- 1$

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

$0.3x+1 = 0.5x- 1$
$-0.2x = -2$
$1x = 10$
$y = (0.3\times10)+1$
$y = (0.5\times10)- 1$

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

$-0.2x+0 = 0.4x- 6$
$-0.6x = -6$
$1x = 10$
$y = (-0.2\times10)+0$
$y = (0.4\times10)- 6$

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

$-1.5x+1 = -3.5x- 3$
$2x = -4$
$1x = -2$
$y = (-1.5\times-2)+1$
$y = (-3.5\times-2)- 3$

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

$-0.25x- 2 = -0.5x+0$
$0.25x = 2$
$1x = 8$
$y = (-0.25\times8)- 2$
$y = (-0.5\times8)+0$

**Answers**

1. **(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)**



| 1-10 | 90 | 80 | 70 | 60 | 50 | 40 | 30 | 20 | 10 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|