Определение точки пересечения с уравнениями Имя:

Для каждой системы уравнений определите точку пересечения на графике.

1) $\begin{cases} y = 0.3x - 3 \\ y = -0.1x - 7 \end{cases}$

2) $\begin{cases} y = -0.5x - 8 \\ y = -2.75x + 1 \end{cases}$

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

4) $\begin{cases} y = 0.5x - 1 \\ y = 1.5x + 5 \end{cases}$

5) $\begin{cases} y = -3.25x - 7 \\ y = -1.75x - 1 \end{cases}$

6) $\begin{cases} y = -0.5x + 3 \\ y = 1.5x - 1 \end{cases}$

7) $\begin{cases} y = 0.2x - 6 \\ y = 0.4x - 4 \end{cases}$

8) $\begin{cases} y = 0.3x - 8 \\ y = -0.2x - 3 \end{cases}$

9) $\begin{cases} y = -1.3x - 8 \\ y = 0.2x + 7 \end{cases}$

10) $\begin{cases} y = 2.5x - 8 \\ y = -0.75x + 5 \end{cases}$

Ответы

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

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

Для каждой системы уравнений определите точку пересечения на графике.

1) $\begin{cases} y = 0.3x - 3 \\ y = -0.1x - 7 \end{cases}$

$0.3x - 3 = -0.1x - 7$
$0.4x = -4$
$1x = -10$
$y = (0.3 \times -10) - 3$
$y = (-0.1 \times -10) - 7$

2) $\begin{cases} y = -0.5x - 8 \\ y = -2.75x + 1 \end{cases}$

$-0.5x - 8 = -2.75x + 1$
$2.25x = 9$
$1x = 4$
$y = (-0.5 \times 4) - 8$
$y = (-2.75 \times 4) + 1$

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

$0.4x + 8 = -0.6x - 2$
$1x = -10$
$1x = -10$
$y = (0.4 \times -10) + 8$
$y = (-0.6 \times -10) - 2$

4) $\begin{cases} y = 0.5x - 1 \\ y = 1.5x + 5 \end{cases}$

$0.5x - 1 = 1.5x + 5$
$-1x = 6$
$1x = -6$
$y = (0.5 \times -6) - 1$
$y = (1.5 \times -6) + 5$

5) $\begin{cases} y = -3.25x - 7 \\ y = -1.75x - 1 \end{cases}$

$-3.25x - 7 = -1.75x - 1$
$-1.5x = 6$
$1x = -4$
$y = (-3.25 \times -4) - 7$
$y = (-1.75 \times -4) - 1$

6) $\begin{cases} y = -0.5x + 3 \\ y = 1.5x - 1 \end{cases}$

$-0.5x + 3 = 1.5x - 1$
$-2x = -4$
$1x = 2$
$y = (-0.5 \times 2) + 3$
$y = (1.5 \times 2) - 1$

7) $\begin{cases} y = 0.2x - 6 \\ y = 0.4x - 4 \end{cases}$

$0.2x - 6 = 0.4x - 4$
$-0.2x = 2$
$1x = -10$
$y = (0.2 \times -10) - 6$
$y = (0.4 \times -10) - 4$

8) $\begin{cases} y = 0.3x - 8 \\ y = -0.2x - 3 \end{cases}$

$0.3x - 8 = -0.2x - 3$
$0.5x = 5$
$1x = 10$
$y = (0.3 \times 10) - 8$
$y = (-0.2 \times 10) - 3$

9) $\begin{cases} y = -1.3x - 8 \\ y = 0.2x + 7 \end{cases}$

$-1.3x - 8 = 0.2x + 7$
$-1.5x = 15$
$1x = -10$
$y = (-1.3 \times -10) - 8$
$y = (0.2 \times -10) + 7$

10) $\begin{cases} y = 2.5x - 8 \\ y = -0.75x + 5 \end{cases}$

$2.5x - 8 = -0.75x + 5$
$3.25x = 13$
$1x = 4$
$y = (2.5 \times 4) - 8$
$y = (-0.75 \times 4) + 5$

Ответы

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

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