

$$1. \begin{cases} x + y = 4 \\ + \\ x - y = 5 \end{cases}$$

$$2 \cdot x = 9$$

$$x = 9 : 2$$

$$x = 9,0 \mid \begin{array}{r} 2 \\ -8 \\ \hline 10 \\ -10 \\ \hline 0 \end{array}$$

$$x = 4,5$$

$$\begin{aligned} 4,5 + y &= 4 \\ y &= 4 - 4,5 \\ y &= -0,5 \end{aligned}$$

$$\text{Ответ: } x = 4,5 \\ y = -0,5$$

1.1. Решить:

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

$$2. \begin{cases} 3x - 7y = 11 \\ + \\ 6x + 7y = 16 \end{cases}$$

$$9 \cdot x = 27$$

$$x = 27 : 9$$

$$x = 3$$

$$\begin{aligned} 3 \cdot 3 - 7 \cdot y &= 11 \\ 9 - 7 \cdot y &= 11 \end{aligned}$$

$$-7 \cdot y = 11 - 9$$

$$-7 \cdot y = 2$$

$$y = 2 : (-7)$$

$$y = -\frac{2}{7}$$

$$\text{Ответ: } x = 3; y = -\frac{2}{7}$$

2.1. Решить:

$$\begin{cases} 5x - 6y = 7 \\ 10x + 6y = 8 \end{cases}$$

$$3. \begin{cases} 4x + 2y = 5 \\ 4x - 6y = -7 \end{cases} \mid \cdot (-1) \Leftrightarrow \begin{cases} 4x + 2y = 5 \\ -4x + 6y = 7 \end{cases}$$

$$8y = 12$$

$$y = 12 : 8$$

$$y = \frac{12}{8}$$

$$y = 1,5$$

$$\begin{array}{r} 3,0 \mid 2 \\ -2 \\ \hline 10 \\ -10 \\ \hline 0 \end{array}$$

$y = 1,5$  подставляем в первое уравнение

$$4x + 2 \cdot 1,5 = 5$$

$$4x + 3 = 5$$

$$4x = 5 - 3$$

$$4x = 2$$

$$x = 2 : 4$$

$$x = \frac{2}{4}$$

$$x = \frac{1}{2}$$

$$\begin{array}{r} 1,0 \mid 2 \\ -0 \\ \hline 10 \\ -10 \\ \hline 0 \end{array}$$

$$x = 0,5$$

$$\text{Ответ: } x = 0,5 \\ y = 1,5$$

3.1 Решить:

$$\begin{cases} 5x + 4y = 2 \\ 5x - 3y = -3 \end{cases}$$

$$4. \begin{cases} 6x + 7y = 2 \\ 3x - 4y = 46 \end{cases} \begin{matrix} | \cdot (-2) \end{matrix} \Leftrightarrow \begin{cases} 6x + 7y = 2 \\ -6x + 8y = -92 \end{cases}$$


---


$$15y = -90$$

$$y = (-90) : 15$$

$$y = -6$$

$y = -6$  в первое уравнение

$$6x + 7 \cdot (-6) = 2$$

$$6x - 42 = 2 \rightarrow$$

$$6x = 2 + 42$$

$$6x = 44$$

$$x = 44 : 6$$

$$x = \frac{44}{6} = \frac{22}{3}$$

4.1. Решить:  $\begin{cases} 4x + 3y = 3 \\ 2x - 2y = 5 \end{cases}$

Ответ:  $x = \frac{22}{3}$   
 $y = -6$

$$5. \begin{cases} 2x - 3y = 8 \\ 7x - 5y = -5 \end{cases} \begin{matrix} | \cdot (-7) \\ | \cdot 2 \end{matrix} \Leftrightarrow \begin{cases} -14x + 21y = -56 \\ 14x - 10y = -10 \end{cases}$$


---


$$11y = -66$$

$$y = -66 : 11$$

$$y = -6$$

$y = -6$  в первое уравнение:

$$2x - 3 \cdot (-6) = 8$$

$$2x + 18 = 8 \rightarrow$$

$$2x = 8 - 18$$

$$2x = -10$$

$$x = -10 : 2$$

Ответ:  $x = -5$   
 $y = -6$

$$x = -5$$

5.1. Решить:  $\begin{cases} 3x - 5y = 14 \\ 2x - 7y = 2 \end{cases}$

$$6. \begin{cases} 6x - 7y = 40 \\ 5y - 2x = -8 \end{cases} \Leftrightarrow \begin{cases} 6x - 7y = 40 \\ -2x + 5y = -8 \end{cases} \begin{matrix} | \cdot 3 \end{matrix} \Leftrightarrow \begin{cases} 6x - 7y = 40 \\ -6x + 15y = -24 \end{cases}$$


---


$$8y = 16$$

$$y = 16 : 8$$

$$y = 2$$

меняем местами

$y = 2$  в первое уравнение:  $6x - 7 \cdot 2 = 40$

$$6x - 14 = 40 \rightarrow$$

$$6x = 40 + 14$$

$$6x = 54$$

$$x = 54 : 6$$

$$x = 9$$

6.1. Решить:

$$\begin{cases} 4x - 5y = 2 \\ -7y + 6x = -1 \end{cases} \begin{matrix} | \cdot (-3) \\ | \cdot 2 \end{matrix} \Leftrightarrow \begin{cases} 4x - 5y = 2 \\ -6x - 7y = -3 \end{cases}$$

Ответ:  $x = 9$   
 $y = 2$