

連立方程式 ③ 答え

☆ 次の連立方程式を解きましょう。

※ 解答は一例です。

$$\textcircled{1} \begin{cases} (5x + 2y = 4) \times 3 \\ (4x + 3y = -1) \times 2 \end{cases} \quad \textcircled{2} \begin{cases} (2x + 3y = -8) \times 4 \\ (5x - 4y = 3) \times 3 \end{cases} \quad \textcircled{3} \begin{cases} (4x - 3y = 7) \times 2 \\ (-3x + 2y = -3) \times 3 \end{cases}$$

$$\begin{array}{r} 15x + 6y = 12 \\ -) 8x + 6y = -2 \\ \hline 7x = 14 \\ x = 2 \end{array}$$

$5x + 2y = 4$ に代入

$$\begin{array}{r} 10 + 2y = 4 \\ y = -3 \end{array}$$

$$(x, y) = (2, -3)$$

$$\begin{array}{r} 8x + 12y = -32 \\ +) 15x - 12y = 9 \\ \hline 23x = -23 \\ x = -1 \end{array}$$

$5x - 4y = 3$ に代入

$$\begin{array}{r} -5 - 4y = 3 \\ y = -2 \end{array}$$

$$(x, y) = (-1, -2)$$

$$\begin{array}{r} 8x - 6y = 14 \\ +) -9x + 6y = -9 \\ \hline -x = 5 \\ x = -5 \end{array}$$

$4x - 3y = 7$ に代入

$$\begin{array}{r} -20 - 3y = 7 \\ y = -9 \end{array}$$

$$(x, y) = (-5, -9)$$

$$\textcircled{4} \begin{cases} (2x - 9y = -3) \times 3 \\ (3x - 4y = 5) \times 2 \end{cases} \quad \textcircled{5} \begin{cases} (5x - 3y = 1) \times 2 \\ (-3x + 2y = -1) \times 3 \end{cases} \quad \textcircled{6} \begin{cases} (7x - 4y = 13) \times 3 \\ (2x - 3y = 0) \times 4 \end{cases}$$

$$\begin{array}{r} 6x - 27y = -9 \\ -) 6x - 8y = 10 \\ \hline -19y = -19 \\ y = 1 \end{array}$$

$2x - 9y = -3$ に代入

$$\begin{array}{r} 2x - 9 = -3 \\ x = 3 \end{array}$$

$$(x, y) = (3, 1)$$

$$\begin{array}{r} 10x - 6y = 2 \\ +) -9x + 6y = -3 \\ \hline x = -1 \end{array}$$

$5x - 3y = 1$ に代入

$$\begin{array}{r} -5 - 3y = 1 \\ y = -2 \end{array}$$

$$(x, y) = (-1, -2)$$

$$\begin{array}{r} 21x - 12y = 39 \\ -) 8x - 12y = 0 \\ \hline 13x = 39 \\ x = 3 \end{array}$$

$2x - 3y = 0$ に代入

$$\begin{array}{r} 6 - 3y = 0 \\ y = 2 \end{array}$$

$$(x, y) = (3, 2)$$