

連立方程式 ① 答え

☆ 次の連立方程式を解きましょう。

※ 解答は一例です。

$$\textcircled{1} \begin{cases} x + y = 4 \\ x - y = 8 \end{cases}$$

$$\begin{array}{r} +) \\ \hline 2x \quad = 12 \\ x \quad = 6 \end{array}$$

$x + y = 4$ に代入

$$\begin{array}{r} 6 + y = 4 \\ y = -2 \end{array}$$

$(x, y) = (6, -2)$

$$\textcircled{2} \begin{cases} 2x + y = 15 \\ x + y = 5 \end{cases}$$

$$\begin{array}{r} -) \\ \hline x \quad = 10 \end{array}$$

$x + y = 5$ に代入

$$\begin{array}{r} 10 + y = 5 \\ y = -5 \end{array}$$

$(x, y) = (10, -5)$

$$\textcircled{3} \begin{cases} 3x + y = 8 \\ 8x + y = 23 \end{cases}$$

$$\begin{array}{r} -) \\ \hline -5x \quad = -15 \\ x \quad = 3 \end{array}$$

$3x + y = 8$ に代入

$$\begin{array}{r} 9 + y = 8 \\ y = -1 \end{array}$$

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

$$\textcircled{4} \begin{cases} x + 2y = 6 \\ x - y = -6 \end{cases}$$

$$\begin{array}{r} -) \\ \hline 3y = 12 \\ y = 4 \end{array}$$

$x + 2y = 6$ に代入

$$\begin{array}{r} x + 8 = 6 \\ x = -2 \end{array}$$

$(x, y) = (-2, 4)$

$$\textcircled{5} \begin{cases} 3x - 4y = -9 \\ 5x + 4y = 49 \end{cases}$$

$$\begin{array}{r} +) \\ \hline 8x \quad = 40 \\ x \quad = 5 \end{array}$$

$5x + 4y = 49$ に代入

$$\begin{array}{r} 25 + 4y = 49 \\ 4y = 24 \\ y = 6 \end{array}$$

$(x, y) = (5, 6)$

$$\textcircled{6} \begin{cases} x - y = 15 \\ 3x + y = 9 \end{cases}$$

$$\begin{array}{r} +) \\ \hline 4x \quad = 24 \\ x \quad = 6 \end{array}$$

$3x + y = 9$ に代入

$$\begin{array}{r} 18 + y = 9 \\ y = -9 \end{array}$$

$(x, y) = (6, -9)$

$$\textcircled{7} \begin{cases} x - y = 20 \\ x - 4y = 2 \end{cases}$$

$$\begin{array}{r} -) \\ \hline 3y = 18 \\ y = 6 \end{array}$$

$x - y = 20$ に代入

$$\begin{array}{r} x - 6 = 20 \\ x = 26 \end{array}$$

$(x, y) = (26, 6)$

$$\textcircled{8} \begin{cases} 5x + 2y = -1 \\ -5x + 3y = 11 \end{cases}$$

$$\begin{array}{r} +) \\ \hline 5y = 10 \\ y = 2 \end{array}$$

$5x + 2y = -1$ に代入

$$\begin{array}{r} 5x + 4 = -1 \\ 5x = -5 \\ x = -1 \end{array}$$

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

$$\textcircled{9} \begin{cases} x + 2y = 10 \\ x - 3y = 0 \end{cases}$$

$$\begin{array}{r} -) \\ \hline 5y = 10 \\ y = 2 \end{array}$$

$x + 2y = 10$ に代入

$$\begin{array}{r} x + 4 = 10 \\ x = 6 \end{array}$$

$(x, y) = (6, 2)$