

# 連立方程式 (加減法)

組 番 名前

1 次の連立方程式を解きなさい。

$$\textcircled{1} \begin{cases} 3x - 5y = -9 \\ 2x + 5y = 19 \end{cases}$$

$$\begin{array}{r} +) \\ \hline 5x = 10 \\ x = 2 \\ y = 3 \end{array} \quad \underline{x=2, y=3}$$

$$\textcircled{2} \begin{cases} 3x - y = -8 \\ 3x + 2y = 7 \end{cases}$$

$$\begin{array}{r} -) \\ \hline -3y = -15 \\ y = 5 \\ x = -1 \end{array} \quad \underline{x=-1, y=5}$$

$$\textcircled{3} \begin{cases} x - 4y = 17 \\ 3x + 4y = 3 \end{cases}$$

$$\begin{array}{r} +) \\ \hline 4x = 20 \\ x = 5 \\ y = -3 \end{array} \quad \underline{x=5, y=-3}$$

$$\textcircled{4} \begin{cases} 3x - 2y = -10 \\ 5x - 2y = 6 \end{cases}$$

$$\begin{array}{r} -) \\ \hline -2x = -16 \\ x = 8 \\ y = 17 \end{array} \quad \underline{x=8, y=17}$$

$$\textcircled{5} \begin{cases} 4x - 9y = 2 \\ 7y - 4x = 2 \end{cases}$$

$$\begin{array}{r} +) \\ \hline -2y = 4 \\ y = -2 \\ x = -4 \end{array} \quad \underline{x=-4, y=-2}$$

$$\textcircled{6} \begin{cases} x + 2y = -3 \\ x - y = 9 \end{cases}$$

$$\begin{array}{r} -) \\ \hline 3y = -12 \\ y = -4 \\ x = 5 \end{array} \quad \underline{x=5, y=-4}$$

$$\textcircled{7} \begin{cases} 2x + y = 5 \\ 3x - 2y = 4 \end{cases} \times 2$$

$$\begin{array}{r} +) \\ \hline 4x + 2y = 10 \\ 7x = 14 \\ x = 2 \\ y = 1 \end{array} \quad \underline{x=2, y=1}$$

$$\textcircled{8} \begin{cases} 9x - 5y = 12 \\ 3x + 2y = 15 \end{cases} \times 3$$

$$\begin{array}{r} 9x + 6y = 45 \\ -) 9x - 5y = 12 \\ \hline 11y = 33 \\ y = 3 \\ x = 3 \end{array} \quad \underline{x=3, y=3}$$

$$\textcircled{9} \begin{cases} 2x - y = -1 \\ 3x - 4y = 16 \end{cases} \times 4$$

$$\begin{array}{r} -) \\ \hline 8x - 4y = -4 \\ -5x = 20 \\ x = -4 \\ y = -7 \end{array} \quad \underline{x=-4, y=-7}$$

$$\textcircled{10} \begin{cases} -x + 2y = -7 \\ 4x + 3y = -5 \end{cases} \times 4$$

$$\begin{array}{r} +) \\ \hline -4x + 8y = -28 \\ 11y = -33 \\ y = -3 \\ x = 1 \end{array} \quad \underline{x=1, y=-3}$$

2 連立方程式  $\begin{cases} ax + by = -9 \\ bx + ay = 16 \end{cases}$  の解が、 $x = -1, y = -6$  のとき、 $a, b$  の値を求めなさい。

$$\begin{array}{r} -a - 6b = -9 \\ -6a - b = 16 \end{array} \times 6 \quad \begin{array}{l} b = 2 \\ a = -3 \end{array}$$

$$\begin{array}{r} -) \\ \hline -6a - 36b = -54 \\ 35b = 70 \end{array} \quad \underline{a=-3, b=2}$$