

## 連立方程式を加減法で解く

1 次の連立方程式を加減法で解きなさい。

$$\begin{cases} 2x + 5y = 19 & \dots\dots \textcircled{1} \\ 2x + 6y = 22 & \dots\dots \textcircled{2} \end{cases}$$

$$\textcircled{1} \quad 2x + 5y = 19$$

$$\textcircled{2} \quad \begin{array}{r} -) 2x + 6y = 22 \\ \hline -y = -3 \\ y = 3 \end{array}$$

$y = 3$ を①に代入すると、

$$2x + 5 \times 3 = 19$$

$$2x = 4$$

$$x = 2$$

$$\text{答} \begin{cases} x = 2 \\ y = 3 \end{cases}$$

1 次の連立方程式を加減法で解きなさい。

$$(1) \begin{cases} 2x + 9y = 35 & \dots\dots \textcircled{1} \\ 2x + 5y = 23 & \dots\dots \textcircled{2} \end{cases}$$

$$(2) \begin{cases} 4x - 7y = -29 & \dots\dots \textcircled{1} \\ -8x + 7y = 37 & \dots\dots \textcircled{2} \end{cases}$$

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$$\textcircled{1} \quad 2x + 9y = 35$$

$$\textcircled{2} \quad \begin{array}{r} -) 2x + 5y = 23 \\ \hline 4y = 12 \\ y = 3 \end{array}$$

$y = 3$ を①に代入すると、

$$2x + 9 \times 3 = 35$$

$$2x = 8$$

$$x = 4$$

$$\text{答} \begin{cases} x = 4 \\ y = 3 \end{cases}$$

$$(2) \begin{cases} 4x - 7y = -29 & \dots\dots \textcircled{1} \\ -8x + 7y = 37 & \dots\dots \textcircled{2} \end{cases}$$

$$\textcircled{1} \quad 4x - 7y = -29$$

$$\textcircled{2} \quad \begin{array}{r} +) -8x + 7y = 37 \\ \hline -4x = 8 \\ x = -2 \end{array}$$

$x = -2$ を①に代入すると、

$$4 \times (-2) - 7y = -29$$

$$-7y = -21$$

$$y = 3$$

$$\text{答} \begin{cases} x = -2 \\ y = 3 \end{cases}$$