

# 連立方程式

年 組 名前

/5

■ 次の連立方程式を解きなさい。

$$\textcircled{1} \begin{cases} 5x - 2y = -34 \\ 5x + 3y = -24 \end{cases}$$

$$x = \quad , \quad y =$$

$$\textcircled{2} \begin{cases} 3x - 5y = -30 \\ 4x + 5y = -5 \end{cases}$$

$$x = \quad , \quad y =$$

$$\textcircled{3} \begin{cases} 5x + y = 1 \\ 5x - 3y = -23 \end{cases}$$

$$x = \quad , \quad y =$$

$$\textcircled{4} \begin{cases} x + 5y = -12 \\ 4x + 5y = -3 \end{cases}$$

$$x = \quad , \quad y =$$

$$\textcircled{5} \begin{cases} 6x + y = -13 \\ 3x + y = -4 \end{cases}$$

$$x = \quad , \quad y =$$

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■ 次の連立方程式を解きなさい。

$$\textcircled{1} \begin{cases} 5x - 2y = -34 & \cdots\textcircled{1} \\ 5x + 3y = -24 & \cdots\textcircled{2} \end{cases}$$

$$\begin{aligned} \textcircled{1} - \textcircled{2} \text{ より } & -5y = -10 \\ & y = 2 \end{aligned}$$

$y = 2$  を  $\textcircled{1}$  に代入して

$$5x - 4 = -34$$

$$5x = -30$$

$$x = -6$$

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

$$\textcircled{2} \begin{cases} 3x - 5y = -30 & \cdots\textcircled{1} \\ 4x + 5y = -5 & \cdots\textcircled{2} \end{cases}$$

$$\begin{aligned} \textcircled{1} + \textcircled{2} \text{ より } & 7x = -35 \\ & x = -5 \end{aligned}$$

$x = -5$  を  $\textcircled{1}$  に代入して

$$-15 - 5y = -30$$

$$-5y = -15$$

$$y = 3$$

$$x = -5, y = 3$$

$$\textcircled{3} \begin{cases} 5x + y = 1 & \cdots\textcircled{1} \\ 5x - 3y = -23 & \cdots\textcircled{2} \end{cases}$$

$$\begin{aligned} \textcircled{1} - \textcircled{2} \text{ より } & 4y = 24 \\ & y = 6 \end{aligned}$$

$y = 6$  を  $\textcircled{1}$  に代入して

$$5x + 6 = 1$$

$$5x = -5$$

$$x = -1$$

$$x = -1, y = 6$$

$$\textcircled{4} \begin{cases} x + 5y = -12 & \cdots\textcircled{1} \\ 4x + 5y = -3 & \cdots\textcircled{2} \end{cases}$$

$$\begin{aligned} \textcircled{1} - \textcircled{2} \text{ より } & -3x = -9 \\ & x = 3 \end{aligned}$$

$x = 3$  を  $\textcircled{1}$  に代入して

$$3 + 5y = -12$$

$$5y = -15$$

$$y = -3$$

$$x = 3, y = -3$$

$$\textcircled{5} \begin{cases} 6x + y = -13 & \cdots\textcircled{1} \\ 3x + y = -4 & \cdots\textcircled{2} \end{cases}$$

$$\begin{aligned} \textcircled{1} - \textcircled{2} \text{ より } & 3x = -9 \\ & x = -3 \end{aligned}$$

$x = -3$  を  $\textcircled{1}$  に代入して

$$-18 + y = -13$$

$$y = 5$$

$$x = -3, y = 5$$