

# 連立方程式

年 組 名前

/5

■ 次の連立方程式を解きなさい。

$$\textcircled{1} \begin{cases} 5x - 3y = -10 \\ 5x + 2y = 15 \end{cases}$$

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

$$\textcircled{2} \begin{cases} 4x - 5y = 14 \\ 3x + 5y = -42 \end{cases}$$

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

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

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

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

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

$$\textcircled{5} \begin{cases} x - 6y = 37 \\ 5x + 6y = -67 \end{cases}$$

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

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■ 次の連立方程式を解きなさい。

$$\textcircled{1} \begin{cases} 5x - 3y = -10 & \cdots\textcircled{1} \\ 5x + 2y = 15 & \cdots\textcircled{2} \end{cases}$$

$$\begin{aligned} \textcircled{1} - \textcircled{2} \text{ より } & -5y = -25 \\ & y = 5 \end{aligned}$$

 $y = 5$  を  $\textcircled{1}$  に代入して

$$5x - 15 = -10$$

$$5x = 5$$

$$x = 1$$

$$x = 1, y = 5$$

$$\textcircled{2} \begin{cases} 4x - 5y = 14 & \cdots\textcircled{1} \\ 3x + 5y = -42 & \cdots\textcircled{2} \end{cases}$$

$$\begin{aligned} \textcircled{1} + \textcircled{2} \text{ より } & 7x = -28 \\ & x = -4 \end{aligned}$$

 $x = -4$  を  $\textcircled{1}$  に代入して

$$-16 - 5y = 14$$

$$-5y = 30$$

$$y = -6$$

$$x = -4, y = -6$$

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

$$\begin{aligned} \textcircled{1} - \textcircled{2} \text{ より } & -2y = 8 \\ & y = -4 \end{aligned}$$

 $y = -4$  を  $\textcircled{1}$  に代入して

$$5x - 4 = 6$$

$$5x = 10$$

$$x = 2$$

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

$$\textcircled{4} \begin{cases} 3x + y = 10 & \cdots\textcircled{1} \\ 2x + y = 6 & \cdots\textcircled{2} \end{cases}$$

$$\textcircled{1} - \textcircled{2} \text{ より } x = 4$$

 $x = 4$  を  $\textcircled{1}$  に代入して

$$12 + y = 10$$

$$y = -2$$

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

$$\textcircled{5} \begin{cases} x - 6y = 37 & \cdots\textcircled{1} \\ 5x + 6y = -67 & \cdots\textcircled{2} \end{cases}$$

$$\begin{aligned} \textcircled{1} + \textcircled{2} \text{ より } & 6x = -30 \\ & x = -5 \end{aligned}$$

 $x = -5$  を  $\textcircled{1}$  に代入して

$$-5 - 6y = 37$$

$$-6y = 42$$

$$y = -7$$

$$x = -5, y = -7$$