

# 連立方程式

年 組 名前

/5

■ 次の連立方程式を解きなさい。

$$\textcircled{1} \begin{cases} 6x - y = 16 \\ 2x + y = 0 \end{cases}$$

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

$$\textcircled{2} \begin{cases} x + y = -11 \\ x + 5y = -35 \end{cases}$$

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

$$\textcircled{3} \begin{cases} 2x + y = 4 \\ 2x - 5y = -8 \end{cases}$$

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

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

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

$$\textcircled{5} \begin{cases} 3x - 4y = 5 \\ 3x - y = 8 \end{cases}$$

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

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■ 次の連立方程式を解きなさい。

$$\textcircled{1} \begin{cases} 6x - y = 16 & \cdots\textcircled{1} \\ 2x + y = 0 & \cdots\textcircled{2} \end{cases}$$

$$\begin{aligned} \textcircled{1} + \textcircled{2} \text{ より } & 8x = 16 \\ & x = 2 \end{aligned}$$

 $x = 2$  を  $\textcircled{1}$  に代入して

$$12 - y = 16$$

$$-y = 4$$

$$y = -4$$

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

$$\textcircled{2} \begin{cases} x + y = -11 & \cdots\textcircled{1} \\ x + 5y = -35 & \cdots\textcircled{2} \end{cases}$$

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

 $y = -6$  を  $\textcircled{1}$  に代入して

$$x - 6 = -11$$

$$x = -5$$

$$x = -5, y = -6$$

$$\textcircled{3} \begin{cases} 2x + y = 4 & \cdots\textcircled{1} \\ 2x - 5y = -8 & \cdots\textcircled{2} \end{cases}$$

$$\begin{aligned} \textcircled{1} - \textcircled{2} \text{ より } & 6y = 12 \\ & y = 2 \end{aligned}$$

 $y = 2$  を  $\textcircled{1}$  に代入して

$$2x + 2 = 4$$

$$2x = 2$$

$$x = 1$$

$$x = 1, y = 2$$

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

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

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

$$-4 + 2y = 4$$

$$2y = 8$$

$$y = 4$$

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

$$\textcircled{5} \begin{cases} 3x - 4y = 5 & \cdots\textcircled{1} \\ 3x - y = 8 & \cdots\textcircled{2} \end{cases}$$

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

 $y = 1$  を  $\textcircled{1}$  に代入して

$$3x - 4 = 5$$

$$3x = 9$$

$$x = 3$$

$$x = 3, y = 1$$