# 連立方程式 計算1

NO.2

名前

/4 点

#### ◆次の連立方程式を解きなさい

(1) 
$$\begin{cases} 6 & x & - & 5 \\ 3 & x & - & y \\ \end{cases} = 8$$

(2) 
$$\begin{cases} 5(x + y) - 9x = 3 \\ 3x - 4y = -2 \end{cases}$$

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

(4) 
$$\begin{cases} 4( & x + y ) - y = -5 \\ x - 3( & x - y ) = 7 \end{cases}$$

## 解答

(1) 
$$\begin{cases} -4 & x & -5 & y & = 2 & \cdots \\ 3 & x & -y & = 8 & \cdots \\ 0 & -2 & x & 5 & 7 \\ -4 & x & -5 & y & = 2 \\ -1 & 15 & x & -5 & y & = 40 \\ \hline & 19 & x & = 38 \\ x & = 2 & & 2 \\ x & = 2 & & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 & 2 \\ x & = 2 & & 2 & 2 \\ x & = 2 & & 2 & 2 \\ x & = 2 & & 2 & 2 \\ x & = 2 & 2 & 2 & 2 \\ x & = 2 & 2 & 2 & 2 \\ x & = 2 & 2 & 2 \\ x & = 2 & 2 & 2 & 2 \\ x & = 2 & 2 & 2 & 2 \\ x & =$$

#### (2) 式を整理すると

$$\begin{cases}
-4 & x + 5 & y = 3 & \cdots \\
3 & x - 4 & y = -2 & \cdots \\
0 & \times 3 + 2 & \times 4 & c, \\
-12 & x + 15 & y = 9 \\
+1 & 12 & x - 16 & y = -8
\end{cases}$$

$$-1 & y = -1$$

$$y = -1$$

$$y = -1$$

$$y = -1$$

$$x + 5 \times (-1) = 3$$

$$-4 \times x = 8$$

$$x = -2$$

$$(x + y) = (-2, -1)$$

#### (3) 式を整理すると

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

$$1) \times 3 + 2 \times 1 \text{ $\overline{c}$},$$

$$9 & x & - 3 & y & = 6 \\
+ ) -2 & x & + 3 & y & = 8
\end{cases}$$

$$7 & x & = 14$$

$$x & = 2$$

$$x & = 2 \quad \text{Eulchalt},$$

$$3 \times 2 & - & y & = 2$$

$$- & y & = -4$$

$$y & = 4$$

$$(x, y) = (2, 4)$$

### (4) 式を整理すると

$$\begin{cases}
4 & x & + 3 & y & = -5 & \cdots \text{①} \\
- 2 & x & + 3 & y & = 7 & \cdots \text{②} \\
\text{① } & \times & 1 & - \text{② } & \times & 2 \text{ $\mathfrak{C}$}, \\
4 & x & + 3 & y & = -5 \\
+ & ) & - 4 & x & + 6 & y & = 14 \\
\hline
& 9 & y & = 9 \\
& y & = 1
\end{cases}$$

$$y = 1 \quad \text{を①に代入して},$$

$$4 & x & + 3 & = -5 \\
& 4 & x & = -8 \\
& x & = -2
\end{cases}$$

$$(x, y) = (-2, 1)$$