

## 【中2数学 | 連立方程式】

【1】 方程式  $2x + 3y = 5x + 2y = 6$  を解きなさい。

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

$$\textcircled{1} \times 2 - \textcircled{2} \times 3 \text{ ㊦}$$

$$-11x = -6$$

$$\therefore x = \frac{6}{11}$$

$$\textcircled{1} \text{ に代入}$$

$$\frac{12}{11} + 3y = 6$$

$$\therefore y = \frac{18}{11}$$

$$\therefore x = \frac{6}{11}, y = \frac{18}{11}$$

【2】 方程式  $3x - 4y + 9 = 2x + 5y + 8 = x - 6y + 7$  を解きなさい。

$$\begin{cases} 3x - 4y + 9 = 2x + 5y + 8 \cdots \textcircled{1} \\ 2x + 5y + 8 = x - 6y + 7 \cdots \textcircled{2} \end{cases}$$

$$\textcircled{1} \text{ ㊦}$$

$$x - 9y = -1 \cdots \textcircled{1}'$$

$$\textcircled{1}' \text{ に代入}$$

$$x = -1$$

$$\textcircled{2} \text{ ㊦}$$

$$x + 11y = -1 \cdots \textcircled{2}'$$

$$\therefore x = -1, y = 0$$

$$\textcircled{2}' - \textcircled{1}' \text{ ㊦}$$

$$20y = 0$$

$$\therefore y = 0$$

【3】 方程式  $2x + y - 4 = x + 2y = 1$  を解きなさい。

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

$$\textcircled{1}' \text{ に代入}$$

$$2x - 1 = 5$$

$$\textcircled{1} \text{ ㊦}$$

$$2x + y = 5 \cdots \textcircled{1}'$$

$$\therefore x = 3$$

$$\therefore x = 3, y = -1$$

$$\textcircled{1}' - \textcircled{2} \times 2 \text{ ㊦}$$

$$-3y = 3$$

$$\therefore y = -1$$

YouTubeチャンネルも見てね▶ 『ふじわら塾長』で検索!!

