

連立方程式 加減法 I

連立方程式の計算

NO.2

学習日 月 日

名前

/5 点

◆ 次の連立方程式を，左辺どうし，右辺どうしを，
それぞれひいて求めなさい。

$$\textcircled{1} \quad \begin{cases} x + y = 5 \\ x + 3y = 11 \end{cases}$$

$$\textcircled{2} \quad \begin{cases} 4x - 2y = 6 \\ 4x - y = 9 \end{cases}$$

◆ 次の連立方程式を，左辺どうし，右辺どうしを，
それぞれたして求めなさい。

$$\textcircled{3} \quad \begin{cases} x + 2y = 8 \\ -x + y = 1 \end{cases}$$

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

$$\textcircled{5} \quad \begin{cases} 3x + 2y = 13 \\ x - 2y = 3 \end{cases}$$

解答

$$\begin{array}{rcl}
 \textcircled{1} & x + y = 5 & \dots\textcircled{1} \\
 - &) \quad x + 3y = 11 & \dots\textcircled{2} \\
 \hline
 & -2y = -6 & \\
 & y = 3 & \\
 y = 3 & \text{を}\textcircled{1}\text{に代入して,} & \\
 & x + 3 = 5 & \\
 & x = 2 &
 \end{array}
 \quad
 \begin{array}{rcl}
 x = 2 & y = 3 &
 \end{array}$$

$$\begin{array}{rcl}
 \textcircled{2} & 4x - 2y = 6 & \dots\textcircled{1} \\
 - &) \quad 4x - y = 9 & \dots\textcircled{2} \\
 \hline
 & -y = -3 & \\
 & y = 3 & \\
 y = 3 & \text{を}\textcircled{1}\text{に代入して,} & \\
 4x - 2 \times 3 = 6 & & \\
 4x = 12 & & \\
 x = 3 & &
 \end{array}
 \quad
 \begin{array}{rcl}
 x = 3 & y = 3 &
 \end{array}$$

$$\begin{array}{rcl}
 \textcircled{3} & x + 2y = 8 & \dots\textcircled{1} \\
 + &) \quad -x + y = 1 & \dots\textcircled{2} \\
 \hline
 & 3y = 9 & \\
 & y = 3 & \\
 y = 3 & \text{を}\textcircled{1}\text{に代入して,} & \\
 x + 2 \times 3 = 8 & & \\
 x = 2 & &
 \end{array}
 \quad
 \begin{array}{rcl}
 x = 2 & y = 3 &
 \end{array}$$

$$\begin{array}{rcl}
 \textcircled{4} & -2x - y = -8 & \dots\textcircled{1} \\
 + &) \quad 2x + 3y = 4 & \dots\textcircled{2} \\
 \hline
 & 2y = -4 & \\
 & y = -2 & \\
 y = -2 & \text{を}\textcircled{1}\text{に代入して,} & \\
 -2x - (-2) = -8 & & \\
 -2x = -10 & & \\
 x = 5 & &
 \end{array}
 \quad
 \begin{array}{rcl}
 x = 5 & y = -2 &
 \end{array}$$

$$\begin{array}{rcl}
 \textcircled{5} & 3x + 2y = 13 & \dots\textcircled{1} \\
 + &) \quad x - 2y = 3 & \dots\textcircled{2} \\
 \hline
 & 4x = 16 & \\
 & x = 4 & \\
 x = 4 & \text{を}\textcircled{2}\text{に代入して,} & \\
 4 - 2y = 3 & & \\
 -2y = -1 & & \\
 y = \frac{1}{2} & &
 \end{array}
 \quad
 \begin{array}{rcl}
 x = 4 & y = \frac{1}{2} &
 \end{array}$$