



【テキスト問題】
 22ブロック範囲
 2年生 第2章
 教科書該当ページ

「連立方程式」
 p 35～p 56

1. 次の連立方程式を、下のようにして解くとき、□にあてはまる数や式を書きなさい。

$$\begin{cases} x + 2y = 1 & \dots \textcircled{1} \\ 3x + 4y = -1 & \dots \textcircled{2} \end{cases} \quad \text{【p 42、44】}$$

(解き方1) xの係数をそろえるために、①の両辺に3をかけると、

$$\begin{aligned} \textcircled{3} &= 3 & \dots \textcircled{3} \\ \textcircled{3} - \textcircled{2} &\text{から、} \textcircled{4} = 4 \\ &y = \textcircled{5} & \dots \textcircled{4} \\ \textcircled{4} &\text{を} \textcircled{1} \text{に代入して} x \text{の値を求めると、} x = \textcircled{6} \\ \text{答え } x &= \textcircled{7}、y = \textcircled{8} \end{aligned}$$

(解き方2) yの係数をそろえるために、①の両辺に2をかけると、

$$\begin{aligned} \textcircled{4} &= 2 & \dots \textcircled{5} \\ \textcircled{5} - \textcircled{2} &\text{から、} \textcircled{6} = 3 \\ &x = \textcircled{7} & \dots \textcircled{6} \\ \textcircled{6} &\text{を} \textcircled{1} \text{に代入して} y \text{の値を求めると、} y = \textcircled{8} \\ \text{答え } x &= \textcircled{9}、y = \textcircled{0} \end{aligned}$$

(解き方3) ①をxについて解くと、

$$\begin{aligned} x &= \textcircled{1} & \dots \textcircled{7} \\ \textcircled{7} &\text{を} \textcircled{2} \text{に代入すると、} 3(\textcircled{1}) + 4y = -1 \\ &y = \textcircled{2} & \dots \textcircled{8} \\ \textcircled{8} &\text{を} \textcircled{7} \text{に代入して} x \text{の値を求めると、} x = \textcircled{3} \\ \text{答え } x &= \textcircled{4}、y = \textcircled{5} \end{aligned}$$

2. 次の連立方程式を解きなさい。【p 40～45】

$$\textcircled{1} \begin{cases} x + 2y = 7 \\ -x + 5y = 14 \end{cases}$$

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

$$\textcircled{3} \begin{cases} x - 2y = 9 \\ 3x - 2y = 7 \end{cases}$$

$$\textcircled{4} \begin{cases} 2x - y = -3 \\ 2x + 3y = 13 \end{cases}$$

$$\textcircled{5} \begin{cases} 5x + y = 3 \\ 3x - 2y = 7 \end{cases}$$

$$\textcircled{6} \begin{cases} 4x - 5y = 21 \\ x + 3y = 1 \end{cases}$$

$$\textcircled{7} \begin{cases} 5x + 2y = 3 \\ 4x - 3y = 7 \end{cases}$$

$$\textcircled{8} \begin{cases} 6x + 7y = 2 \\ 4x + 5y = 0 \end{cases}$$

$$\textcircled{9} \begin{cases} -3x + 4y = 5 \\ 5x - 3y = -12 \end{cases}$$

$$\textcircled{10} \begin{cases} y = 2x \\ 5x - y = 6 \end{cases}$$

$$\textcircled{11} \begin{cases} 3x + y = -2 \\ y = x + 2 \end{cases}$$

$$\textcircled{12} \begin{cases} 4x - 3y = -1 \\ x = 2y - 4 \end{cases}$$

$$\textcircled{13} \begin{cases} y = 2x + 17 \\ y = x + 8 \end{cases}$$

$$\textcircled{14} \begin{cases} y = 3x + 1 \\ y = 5x + 3 \end{cases}$$

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

3. 次の連立方程式を解きなさい。【p 46、47】

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

$$\textcircled{2} \begin{cases} 2x + 3y = 25 \\ y = 4(x + 1) - 5 \end{cases}$$

$$\textcircled{3} \begin{cases} 2x - 3y = 8 \\ 1.8x + 0.4y = 1 \end{cases}$$

$$\textcircled{4} \begin{cases} 0.3x - y = 1.6 \\ 2x + 7y = -3 \end{cases}$$

$$\textcircled{5} \begin{cases} 5x - 4y = 7 \\ \frac{1}{3}x - \frac{3}{2}y = -2 \end{cases}$$

$$\textcircled{6} \begin{cases} \frac{x}{5} - \frac{y}{3} = -1 \\ 2x - y = 4 \end{cases}$$

$$\textcircled{7} \quad 3x + 2y = 5 \quad x + 4y = 1$$

$$\textcircled{8} \quad 2x - y = 4 \quad x + 3y = 10$$