

連立方程式（加減法②）

組 番 名前

- 1 次の連立方程式を解きなさい。

$$\textcircled{1} \quad \begin{cases} 3x + y = 5 \\ x - 6y = 8 \end{cases}$$

$\begin{array}{l} 3x + 18y = 24 \\ -13x + y = 5 \end{array} \quad \cancel{2 \times 3}$

$\begin{array}{r} -19y = 19 \\ y = -1 \\ x = 2 \end{array}$

$x = 2, y = -1$

$$\textcircled{2} \quad \begin{cases} 4x - 5y = 26 \\ x + y = 11 \end{cases}$$

$\begin{array}{l} 4x + 4y = 44 \\ -4x - 5y = 26 \end{array} \quad \cancel{1 \times 4}$

$\begin{array}{r} 9y = 18 \\ y = 2 \\ x = 9 \end{array}$

$x = 9, y = 2$

$$\textcircled{3} \quad \begin{cases} 5x + 12y = 2 \\ 4x + 3y = -5 \end{cases}$$

$\begin{array}{l} 16x + 48y = -20 \\ -11x - 12y = 2 \end{array} \quad \cancel{2 \times 4}$

$\begin{array}{r} 5x = -22 \\ x = -2 \\ y = 1 \end{array}$

$x = -2, y = 1$

$$\textcircled{4} \quad \begin{cases} 3x - 2y = 8 \\ 5x + 6y = 4 \end{cases}$$

$\begin{array}{l} 9x - 6y = 24 \\ 14x = 28 \end{array} \quad \cancel{3 \times 2}$

$\begin{array}{r} x = 2 \\ y = -1 \end{array}$

$x = 2, y = -1$

$$\textcircled{5} \quad \begin{cases} 2x + 3y = 1 \\ 3x - 4y = 10 \end{cases}$$

$\begin{array}{l} 6x + 9y = 3 \\ -6x + 8y = 20 \end{array} \quad \cancel{2 \times 3}$

$\begin{array}{r} 17y = -17 \\ y = -1 \\ x = 2 \end{array}$

$x = 2, y = -1$

$$\textcircled{6} \quad \begin{cases} x + 5y = 8 \\ 2x - y = 5 \end{cases}$$

$\begin{array}{l} 2x + 10y = 16 \\ -11y = -11 \end{array} \quad \cancel{2 \times 2}$

$\begin{array}{r} y = 1 \\ x = 3 \end{array}$

$x = 3, y = 1$

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

$\begin{array}{l} 12x + 21y = 6 \\ -12x - 20y = 8 \end{array} \quad \cancel{3 \times 4}$

$\begin{array}{r} y = -2 \\ x = 4 \end{array}$

$x = 4, y = -2$

$$\textcircled{8} \quad \begin{cases} 3x - 2y = 3 \\ 7x - 3y = 2 \end{cases}$$

$\begin{array}{l} 9x - 6y = 9 \\ -14x + 6y = 4 \end{array} \quad \cancel{3 \times 2}$

$\begin{array}{r} -5x = 5 \\ x = -1 \\ y = -3 \end{array}$

$x = -1, y = -3$

- 2 連立方程式 $\begin{cases} ax + by = -8 \\ ax - by = 16 \end{cases}$ の解が、 $x = 2, y = -4$ のとき、 a, b の値をそれぞれ求めなさい。

$$\begin{array}{l} 2a - 4b = -8 \\ -) 2a + 4b = 16 \\ \hline -8b = -24 \\ b = 3 \\ a = 2 \end{array}$$

$a = 2, b = 3$