

問題 次の連立方程式を解きなさい。

$$(1) \begin{cases} 5x + 3y = 2 & \rightarrow \textcircled{\times 2} \\ 9x - 2y = 11 & \rightarrow \textcircled{\times 3} \end{cases}$$

$$\begin{array}{r} 10x + 6y = 4 \\ + \quad ) \quad 27x - 6y = 33 \\ \hline 37x \qquad \qquad = 37 \\ \boxed{x = 1} \end{array}$$

$$\begin{array}{l} \textcircled{E} \quad 5 + 3y = 2 \\ \quad \quad 3y = 2 - 5 \\ \quad \quad 3y = -3 \\ \quad \quad \boxed{y = -1} \end{array}$$

たし算

$$\textcircled{E} \quad 5 - 3 = 2 \dots \text{ok}$$

答.  $x = 1, y = -1$

$$(2) \begin{cases} 4x + 7y = -13 & \rightarrow \textcircled{\times 2} \\ 5x + 2y = 4 & \rightarrow \textcircled{\times 7} \end{cases}$$

$$\begin{array}{r} 8x + 14y = -26 \\ -) \quad 35x + 14y = 28 \\ \hline -27x = -54 \\ \boxed{x = 2} \end{array}$$

$$\begin{array}{l} \textcircled{F} \quad 10 + 2y = 4 \\ \quad \quad 2y = 4 - 10 \\ \quad \quad 2y = -6 \\ \quad \quad \boxed{y = -3} \end{array}$$

たし算

$$\textcircled{F} \quad 10 - 6 = 4 \dots \text{ok}$$

答.  $x = 2, y = -3$

$$(3) \begin{cases} -3x + 7y = -1 & \rightarrow \textcircled{\times 5} \\ 5x - 4y = -6 & \rightarrow \textcircled{\times 3} \end{cases}$$

$$\begin{array}{r} -15x + 35y = -5 \\ + \quad ) \quad 15x - 12y = -18 \\ \hline 23y = -23 \\ \boxed{y = -1} \end{array}$$

$$\begin{array}{l} \textcircled{E} \quad 5x + 4 = -6 \\ \quad \quad 5x = -6 - 4 \\ \quad \quad 5x = -10 \\ \quad \quad \boxed{x = -2} \end{array}$$

たし算

$$\textcircled{E} \quad -10 + 4 = -6 \dots \text{ok}$$

答.  $x = -2, y = -1$

$$(4) \begin{cases} 4x - 5y = 21 & \rightarrow \textcircled{\times 3} \\ 3x - 2y = 21 & \rightarrow \textcircled{\times 4} \end{cases}$$

$$\begin{array}{r} 12x - 15y = 63 \\ -) \quad 12x - 8y = 84 \\ \hline -7y = -21 \\ \boxed{y = 3} \end{array}$$

$$\begin{array}{l} \textcircled{E} \quad 4x - 15 = 21 \\ \quad \quad 4x = 21 + 15 \\ \quad \quad 4x = 36 \\ \quad \quad \boxed{x = 9} \end{array}$$

たし算

$$\textcircled{E} \quad 36 - 15 = 21 \dots \text{ok}$$

答.  $x = 9, y = 3$