

**問題** 次の連立方程式を適当な方法で解きなさい。

$$(1) \begin{cases} -3x + 4y = 6 \\ 9x - 8y = -18 \end{cases} \quad \text{①} \times 3$$

$$\begin{array}{r} -9x + 12y = 18 \\ +) \quad 9x - 8y = -18 \\ \hline 4y = 0 \\ \boxed{y = 0} \end{array}$$

$$\text{②} \quad 9x - 0 = -18 \\ 9x = -18 \\ \boxed{x = -2}$$

たし算

$$\text{③} \quad -18 - 0 = -18 \dots \text{ok.}$$

答.  $x = -2, y = 0$

$$(2) \begin{cases} y = 3x - 1 \\ x - 2y = 12 \end{cases}$$

$$\begin{array}{r} x - 2(3x - 1) = 12 \\ x - 6x + 2 = 12 \\ -5x = 12 - 2 \\ -5x = 10 \\ \boxed{x = -2} \end{array}$$

$$\text{④} \quad y = -6 - 1 \\ \boxed{y = -7}$$

たし算

$$\text{⑤} \quad -2 + 14 = 12 \dots \text{ok}$$

答.  $x = -2, y = -7$

$$(3) \begin{cases} y = x + 1 \\ y = -2x + 13 \end{cases}$$

$$\begin{array}{r} x + 1 = -2x + 13 \\ x + 2x = 13 - 1 \\ 3x = 12 \\ \boxed{x = 4} \end{array}$$

$$\text{⑥} \quad y = 4 + 1 \\ \boxed{y = 5}$$

たし算

$$\text{⑦} \quad 5 = 4 + 1 \dots \text{ok.}$$

答.  $x = 4, y = 5$

$$(4) \begin{cases} 3x - 2y = 12 \\ 2y = x - 8 \end{cases}$$

$$\begin{array}{r} 3x - (x - 8) = 12 \\ 3x - x + 8 = 12 \\ 2x = 12 - 8 \\ 2x = 4 \\ \boxed{x = 2} \end{array}$$

$$\text{⑧} \quad 2y = 2 - 8 \\ 2y = -6 \\ \boxed{y = -3}$$

たし算

$$\text{⑨} \quad -6 = 2 - 8 \\ -6 = -6 \dots \text{ok}$$

答.  $x = 2, y = -3$