

( ) 組 ( ) 番 名前 ( )

次の連立方程式を加減法で解きなさい。

$$(1) \begin{cases} x + 2y = 4 & \dots \textcircled{1} \\ 4x + 3y = 1 & \dots \textcircled{2} \end{cases}$$

$$\textcircled{1} \times 4 - \textcircled{2}$$

$$4x + 8y = 16$$

$$\underline{-) 4x + 3y = 1}$$

$$5y = 15$$

$$y = 3$$

$y = 3$  を  $\textcircled{1}$  に代入すると

$$x + 6 = 4$$

$$x = -2$$

$$(x, y) = (-2, 3)$$

$$(2) \begin{cases} 2x + 3y = 8 & \dots \textcircled{1} \\ x + 2y = 5 & \dots \textcircled{2} \end{cases}$$

$$\textcircled{1} - \textcircled{2} \times 2$$

$$2x + 3y = 8$$

$$\underline{-) 2x + 4y = 10}$$

$$-y = -2$$

$$y = 2$$

$y = 2$  を  $\textcircled{2}$  に代入すると

$$x + 4 = 5$$

$$x = 1$$

$$(x, y) = (1, 2)$$

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

$$\textcircled{1} \times 3 + \textcircled{2}$$

$$6x - 3y = 12$$

$$\underline{+) 5x + 3y = -1}$$

$$11x = 11$$

$$x = 1$$

$x = 1$  を  $\textcircled{1}$  に代入すると

$$2 - y = 4$$

$$-y = 2$$

$$y = -2$$

$$(x, y) = (1, -2)$$

$$(4) \begin{cases} x + y = 10 & \dots \textcircled{1} \\ 2x + 3y = 24 & \dots \textcircled{2} \end{cases}$$

$$\textcircled{1} \times 3 - \textcircled{2}$$

$$3x + 3y = 30$$

$$\underline{-) 2x + 3y = 24}$$

$$x = 6$$

$x = 6$  を  $\textcircled{1}$  に代入すると

$$6 + y = 10$$

$$y = 4$$

$$(x, y) = (6, 4)$$