

() 組 () 番 名前 ()

次の連立方程式を加減法で解きなさい。

$$(1) \begin{cases} 3x + 2y = 20 \dots \textcircled{1} \\ x + 2y = 12 \dots \textcircled{2} \end{cases}$$

①-②

$$\begin{array}{r} 3x + 2y = 20 \\ -) x + 2y = 12 \\ \hline 2x \quad = 8 \end{array}$$

$$x = 4$$

$x = 4$ を②に代入すると

$$4 + 2y = 12$$

$$2y = 8$$

$$y = 4$$

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

$$(2) \begin{cases} 2x + 5y = 20 \dots \textcircled{1} \\ 2x + 3y = 16 \dots \textcircled{2} \end{cases}$$

①-②

$$\begin{array}{r} 2x + 5y = 20 \\ -) 2x + 3y = 16 \\ \hline 2y = 4 \end{array}$$

$$y = 2$$

$y = 2$ を②に代入すると

$$2x + 6 = 16$$

$$2x = 10$$

$$x = 5$$

$$(x, y) = (5, 2)$$

$$(3) \begin{cases} x + y = -3 \dots \textcircled{1} \\ x - y = 7 \dots \textcircled{2} \end{cases}$$

①+②

$$\begin{array}{r} x + y = -3 \\ +) x - y = 7 \\ \hline 2x \quad = 4 \end{array}$$

$$x = 2$$

$x = 2$ を①に代入すると

$$2 + y = -3$$

$$y = -5$$

$$(x, y) = (2, -5)$$

$$(4) \begin{cases} -2x + 5y = 12 \dots \textcircled{1} \\ -2x + 3y = 4 \dots \textcircled{2} \end{cases}$$

①-②

$$\begin{array}{r} -2x + 5y = 12 \\ -) -2x + 3y = 4 \\ \hline 2y = 8 \end{array}$$

$$y = 4$$

$y = 4$ を②に代入すると

$$-2x + 12 = 4$$

$$-2x = -8$$

$$x = 4$$

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