

1 次の連立方程式を代入法で解きなさい。

$$(1) \begin{cases} 2x + y = -14 \\ y = 5x \end{cases}$$

$$(2) \begin{cases} -x + 6y = 12 \\ x = 2y \end{cases}$$

$$(3) \begin{cases} y = 7x - 5 \\ 3x + y = 25 \end{cases}$$

$$(4) \begin{cases} x = 4y + 2 \\ x - 5y = 9 \end{cases}$$

$$(5) \begin{cases} y = 2x - 4 \\ 5x - 3y = 15 \end{cases}$$

$$(6) \begin{cases} 4x + 7y = 1 \\ x = 9 - 3y \end{cases}$$

$$(7) \begin{cases} 5x - 8y = 40 \\ x = y + 2 \end{cases}$$

$$(8) \begin{cases} y = 3x - 7 \\ 15x - 3y = 39 \end{cases}$$

$$(9) \begin{cases} 2x = 3y - 5 \\ 2x + 6y = 22 \end{cases}$$

$$(10) \begin{cases} 4y = 5x - 11 \\ x - 4y = -1 \end{cases}$$

1 次の連立方程式を代入法で解きなさい。

$$(1) \begin{cases} 2x + y = -14 & \dots \textcircled{1} \\ y = 5x & \dots \textcircled{2} \end{cases}$$

$$\textcircled{2} \text{を}\textcircled{1} \text{に代入して } 2x + 5x = -14$$

$$x = -2$$

$$\text{これを}\textcircled{2} \text{に代入して } y = -10$$

$$x = -2, y = -10$$

$$(2) \begin{cases} -x + 6y = 12 & \dots \textcircled{1} \\ x = 2y & \dots \textcircled{2} \end{cases}$$

$$\textcircled{2} \text{を}\textcircled{1} \text{に代入して } -2y + 6y = 12$$

$$y = 3$$

$$\text{これを}\textcircled{2} \text{に代入して } x = 6$$

$$x = 6, y = 3$$

$$(3) \begin{cases} y = 7x - 5 & \dots \textcircled{1} \\ 3x + y = 25 & \dots \textcircled{2} \end{cases}$$

$$\textcircled{1} \text{を}\textcircled{2} \text{に代入して } 3x + 7x - 5 = 25$$

$$x = 3$$

$$\text{これを}\textcircled{1} \text{に代入して } y = 16$$

$$x = 3, y = 16$$

$$(4) \begin{cases} x = 4y + 2 & \dots \textcircled{1} \\ x - 5y = 9 & \dots \textcircled{2} \end{cases}$$

$$\textcircled{1} \text{を}\textcircled{2} \text{に代入して } 4y + 2 - 5y = 9$$

$$y = -7$$

$$\text{これを}\textcircled{1} \text{に代入して } x = -26$$

$$x = -26, y = -7$$

$$(5) \begin{cases} y = 2x - 4 & \dots \textcircled{1} \\ 5x - 3y = 15 & \dots \textcircled{2} \end{cases}$$

$$\textcircled{1} \text{を}\textcircled{2} \text{に代入して } 5x - 6x + 12 = 15$$

$$x = -3$$

$$\text{これを}\textcircled{1} \text{に代入して } y = -10$$

$$x = -3, y = -10$$

$$(6) \begin{cases} 4x + 7y = 1 & \dots \textcircled{1} \\ x = 9 - 3y & \dots \textcircled{2} \end{cases}$$

$$\textcircled{2} \text{を}\textcircled{1} \text{に代入して } 36 - 12y + 7y = 1$$

$$y = 7$$

$$\text{これを}\textcircled{2} \text{に代入して } x = -12$$

$$x = -12, y = 7$$

$$(7) \begin{cases} 5x - 8y = 40 & \dots \textcircled{1} \\ x = y + 2 & \dots \textcircled{2} \end{cases}$$

$$\textcircled{2} \text{を}\textcircled{1} \text{に代入して } 5x + 10 - 8y = 40$$

$$y = -10$$

$$\text{これを}\textcircled{2} \text{に代入して } x = -8$$

$$x = -8, y = -10$$

$$(8) \begin{cases} y = 3x - 7 & \dots \textcircled{1} \\ 15x - 3y = 39 & \dots \textcircled{2} \end{cases}$$

$$\textcircled{1} \text{を}\textcircled{2} \text{に代入して } 15x - 9x + 21 = 39$$

$$x = 3$$

$$\text{これを}\textcircled{1} \text{に代入して } y = 2$$

$$x = 3, y = 2$$

$$(9) \begin{cases} 2x = 3y - 5 & \dots \textcircled{1} \\ 2x + 6y = 22 & \dots \textcircled{2} \end{cases}$$

$$\textcircled{1} \text{を}\textcircled{2} \text{に代入して } 3y - 5 + 6y = 22$$

$$y = 3$$

$$\text{これを}\textcircled{1} \text{に代入して } x = 2$$

$$x = 2, y = 3$$

$$(10) \begin{cases} 4y = 5x - 11 & \dots \textcircled{1} \\ x - 4y = -1 & \dots \textcircled{2} \end{cases}$$

$$\textcircled{1} \text{を}\textcircled{2} \text{に代入して } x - 5x + 11 = -1$$

$$x = 3$$

$$\text{これを}\textcircled{1} \text{に代入して } y = 1$$

$$x = 3, y = 1$$