

2章(連立方程式) 1節(連立方程式)

4 . 加減法(1)

年 組 番

名前

1. 次の連立方程式を解きなさい。

$$\begin{cases} x + 3y = 11 \\ x + 2y = 9 \end{cases}$$

$$\begin{array}{r} x + 3y = 11 \quad \dots \\ -) x + 2y = 9 \quad \dots \\ \hline y = 2 \end{array}$$

y = 2 を 式に代入して、

$$\begin{array}{r} x + 2 \times 2 = 9 \\ x + 4 = 9 \\ x = 5 \end{array}$$

$$\begin{cases} x = 5 \\ y = 2 \end{cases}$$

$$\begin{cases} x - 4y = 6 \\ 5x - 4y = 14 \end{cases}$$

$$\begin{array}{r} x - 4y = 6 \quad \dots \\ -) 5x - 4y = 14 \quad \dots \\ \hline -4x = -8 \\ x = 2 \end{array}$$

x = 2 を 式に代入して、

$$\begin{array}{r} 2 - 4y = 6 \\ -4y = 4 \\ y = -1 \end{array}$$

$$\begin{cases} x = 2 \\ y = -1 \end{cases}$$

$$\begin{cases} 4x - 3y = 22 \\ -x + 3y = -10 \end{cases}$$

$$\begin{array}{r} 4x - 3y = 22 \quad \dots \\ +) -x + 3y = -10 \quad \dots \\ \hline 3x = 12 \\ x = 4 \end{array}$$

x = 4 を 式に代入して、

$$\begin{array}{r} -4 + 3y = -10 \\ 3y = -6 \\ y = -2 \end{array}$$

$$\begin{cases} x = 4 \\ y = -2 \end{cases}$$

$$\begin{cases} 3x + 2y = 20 \\ x + 2y = 8 \end{cases}$$

$$\begin{array}{r} 3x + 2y = 20 \quad \dots \\ -) x + 2y = 8 \quad \dots \\ \hline 2x = 12 \\ x = 6 \end{array}$$

x = 6 を 式に代入して、

$$\begin{array}{r} 6 + 2y = 8 \\ 2y = 2 \\ y = 1 \end{array}$$

$$\begin{cases} x = 6 \\ y = 1 \end{cases}$$

$$\begin{cases} 6x + 2y = 26 \\ x - 2y = -5 \end{cases}$$

$$\begin{array}{r} 6x + 2y = 26 \quad \dots \\ +) x - 2y = -5 \quad \dots \\ \hline 7x = 21 \\ x = 3 \end{array}$$

x = 3 を 式に代入して、

$$\begin{array}{r} 3 - 2y = -5 \\ -2y = -8 \\ y = 4 \end{array}$$

$$\begin{cases} x = 3 \\ y = 4 \end{cases}$$

$$\begin{cases} 2x + y = -7 \\ -2x + 4y = 2 \end{cases}$$

$$\begin{array}{r} 2x + y = -7 \quad \dots \\ +) -2x + 4y = 2 \quad \dots \\ \hline 5y = -5 \\ y = -1 \end{array}$$

y = -1 を 式に代入して、

$$\begin{array}{r} 2x - 1 = -7 \\ 2x = -6 \\ x = -3 \end{array}$$

$$\begin{cases} x = -3 \\ y = -1 \end{cases}$$