

連立方程式

年 組 名前

/5

■ 次の連立方程式を解きなさい。

$$\textcircled{1} \begin{cases} x - 6y = 37 \\ 5x + 6y = -67 \end{cases}$$

$$x = \quad , \quad y =$$

$$\textcircled{2} \begin{cases} 2x + 5y = 33 \\ 2x + 3y = 23 \end{cases}$$

$$x = \quad , \quad y =$$

$$\textcircled{3} \begin{cases} 4x + y = -13 \\ 4x + 3y = -23 \end{cases}$$

$$x = \quad , \quad y =$$

$$\textcircled{4} \begin{cases} 6x + y = 13 \\ 2x + y = 9 \end{cases}$$

$$x = \quad , \quad y =$$

$$\textcircled{5} \begin{cases} x - 2y = 14 \\ x - 3y = 20 \end{cases}$$

$$x = \quad , \quad y =$$

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■ 次の連立方程式を解きなさい。

$$\textcircled{1} \begin{cases} x - 6y = 37 & \cdots\textcircled{1} \\ 5x + 6y = -67 & \cdots\textcircled{2} \end{cases}$$

$$\begin{aligned} \textcircled{1} + \textcircled{2} \text{ より } & 6x = -30 \\ & x = -5 \end{aligned}$$

$$\begin{aligned} x = -5 \text{ を } \textcircled{1} \text{ に代入して} \\ -5 - 6y = 37 \\ -6y = 42 \\ y = -7 \end{aligned}$$

$$x = -5, y = -7$$

$$\textcircled{2} \begin{cases} 2x + 5y = 33 & \cdots\textcircled{1} \\ 2x + 3y = 23 & \cdots\textcircled{2} \end{cases}$$

$$\begin{aligned} \textcircled{1} - \textcircled{2} \text{ より } & 2y = 10 \\ & y = 5 \end{aligned}$$

$$\begin{aligned} y = 5 \text{ を } \textcircled{1} \text{ に代入して} \\ 2x + 25 = 33 \\ 2x = 8 \\ x = 4 \end{aligned}$$

$$x = 4, y = 5$$

$$\textcircled{3} \begin{cases} 4x + y = -13 & \cdots\textcircled{1} \\ 4x + 3y = -23 & \cdots\textcircled{2} \end{cases}$$

$$\begin{aligned} \textcircled{1} - \textcircled{2} \text{ より } & -2y = 10 \\ & y = -5 \end{aligned}$$

$$\begin{aligned} y = -5 \text{ を } \textcircled{1} \text{ に代入して} \\ 4x - 5 = -13 \\ 4x = -8 \\ x = -2 \end{aligned}$$

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

$$\textcircled{4} \begin{cases} 6x + y = 13 & \cdots\textcircled{1} \\ 2x + y = 9 & \cdots\textcircled{2} \end{cases}$$

$$\begin{aligned} \textcircled{1} - \textcircled{2} \text{ より } & 4x = 4 \\ & x = 1 \end{aligned}$$

$$\begin{aligned} x = 1 \text{ を } \textcircled{1} \text{ に代入して} \\ 6 + y = 13 \\ y = 7 \end{aligned}$$

$$x = 1, y = 7$$

$$\textcircled{5} \begin{cases} x - 2y = 14 & \cdots\textcircled{1} \\ x - 3y = 20 & \cdots\textcircled{2} \end{cases}$$

$$\textcircled{1} - \textcircled{2} \text{ より } y = -6$$

$$\begin{aligned} y = -6 \text{ を } \textcircled{1} \text{ に代入して} \\ x + 12 = 14 \\ x = 2 \end{aligned}$$

$$x = 2, y = -6$$