

連立方程式

年 組 名前

/ 5

■ 次の連立方程式を解きなさい。

①
$$\begin{cases} 5x+y = -11 \\ 3x+y = -7 \end{cases}$$

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

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

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

③
$$\begin{cases} 2x+y = -11 \\ 5x+y = -23 \end{cases}$$

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

④
$$\begin{cases} 3x-y = 20 \\ 3x+2y = 5 \end{cases}$$

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

⑤
$$\begin{cases} 4x-5y = -34 \\ 4x+3y = -18 \end{cases}$$

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

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■ 次の連立方程式を解きなさい。

$$\begin{array}{l} \textcircled{1} \quad \left\{ \begin{array}{l} 5x+y = -11 \\ 3x+y = -7 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} x = -2 \text{ を } \textcircled{1} \text{ に代入して} \\ -10+y = -11 \end{array} \\ \qquad \qquad \qquad y = -1 \end{array}$$

$$\textcircled{1}-\textcircled{2} \text{ より } 2x = -4$$

$$x = -2$$

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

$$\begin{array}{l} \textcircled{2} \quad \left\{ \begin{array}{l} 2x+3y = -8 \\ 2x-y = 8 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} y = -4 \text{ を } \textcircled{1} \text{ に代入して} \\ 2x-12 = -8 \end{array} \end{array}$$

$$2x = 4$$

$$\textcircled{1}-\textcircled{2} \text{ より } 4y = -16$$

$$x = 2$$

$$x = 2, y = -4$$

$$\begin{array}{l} \textcircled{3} \quad \left\{ \begin{array}{l} 2x+y = -11 \\ 5x+y = -23 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} x = -4 \text{ を } \textcircled{1} \text{ に代入して} \\ -8+y = -11 \end{array} \end{array}$$

$$y = -3$$

$$\textcircled{1}-\textcircled{2} \text{ より } -3x = 12$$

$$x = -4$$

$$x = -4, y = -3$$

$$\begin{array}{l} \textcircled{4} \quad \left\{ \begin{array}{l} 3x-y = 20 \\ 3x+2y = 5 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} y = -5 \text{ を } \textcircled{1} \text{ に代入して} \\ 3x+5 = 20 \end{array} \end{array}$$

$$3x = 15$$

$$\textcircled{1}-\textcircled{2} \text{ より } -3y = 15$$

$$x = 5$$

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

$$\begin{array}{l} \textcircled{5} \quad \left\{ \begin{array}{l} 4x-5y = -34 \\ 4x+3y = -18 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} y = 2 \text{ を } \textcircled{1} \text{ に代入して} \\ 4x-10 = -34 \end{array} \end{array}$$

$$4x = -24$$

$$\textcircled{1}-\textcircled{2} \text{ より } -8y = -16$$

$$x = -6$$

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

$$y = 2$$