

連立方程式

年 組 名前

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■ 次の連立方程式を解きなさい。

$$\textcircled{1} \quad \begin{cases} 5x - 4y = 46 \\ x + 4y = -10 \end{cases}$$

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

$$\textcircled{2} \quad \begin{cases} 2x + 5y = -9 \\ 2x + y = -13 \end{cases}$$

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

$$\textcircled{3} \quad \begin{cases} 2x + 3y = -17 \\ 2x + 5y = -27 \end{cases}$$

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

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

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

$$\textcircled{5} \quad \begin{cases} x - y = -9 \\ 2x + y = 0 \end{cases}$$

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

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■ 次の連立方程式を解きなさい。

$$\begin{array}{l} \textcircled{1} \quad \left\{ \begin{array}{l} 5x - 4y = 46 \\ x + 4y = -10 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} x = 6 \text{ を } \textcircled{1} \text{ に代入して} \\ 30 - 4y = 46 \\ -4y = 16 \\ y = -4 \end{array} \\ \qquad \qquad \qquad \textcircled{1} + \textcircled{2} \text{ より } 6x = 36 \\ \qquad \qquad \qquad x = 6 \end{array}$$

$$x = 6, y = -4$$

$$\begin{array}{l} \textcircled{2} \quad \left\{ \begin{array}{l} 2x + 5y = -9 \\ 2x + y = -13 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} y = 1 \text{ を } \textcircled{1} \text{ に代入して} \\ 2x + 5 = -9 \\ 2x = -14 \\ x = -7 \end{array} \\ \qquad \qquad \qquad \textcircled{1} - \textcircled{2} \text{ より } 4y = 4 \\ \qquad \qquad \qquad y = 1 \end{array}$$

$$x = -7, y = 1$$

$$\begin{array}{l} \textcircled{3} \quad \left\{ \begin{array}{l} 2x + 3y = -17 \\ 2x + 5y = -27 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} y = -5 \text{ を } \textcircled{1} \text{ に代入して} \\ 2x - 15 = -17 \\ 2x = -2 \\ x = -1 \end{array} \\ \qquad \qquad \qquad \textcircled{1} - \textcircled{2} \text{ より } -2y = 10 \\ \qquad \qquad \qquad y = -5 \end{array}$$

$$x = -1, y = -5$$

$$\begin{array}{l} \textcircled{4} \quad \left\{ \begin{array}{l} x + 2y = -5 \\ 3x + 2y = -3 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} x = 1 \text{ を } \textcircled{1} \text{ に代入して} \\ 1 + 2y = -5 \\ 2y = -6 \\ y = -3 \end{array} \\ \qquad \qquad \qquad \textcircled{1} - \textcircled{2} \text{ より } -2x = -2 \\ \qquad \qquad \qquad x = 1 \end{array}$$

$$x = 1, y = -3$$

$$\begin{array}{l} \textcircled{5} \quad \left\{ \begin{array}{l} x - y = -9 \\ 2x + y = 0 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} x = -3 \text{ を } \textcircled{1} \text{ に代入して} \\ -3 - y = -9 \\ -y = -6 \\ y = 6 \end{array} \\ \qquad \qquad \qquad \textcircled{1} + \textcircled{2} \text{ より } 3x = -9 \\ \qquad \qquad \qquad x = -3 \end{array}$$

$$x = -3, y = 6$$