

## 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。

① 
$$\begin{cases} 3x - 5y = -21 \\ 3x + 4y = 33 \end{cases}$$

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

② 
$$\begin{cases} 3x + 4y = 23 \\ 5x + 4y = 25 \end{cases}$$

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

③ 
$$\begin{cases} 4x - y = -18 \\ 2x + y = -12 \end{cases}$$

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

④ 
$$\begin{cases} 2x - 3y = 7 \\ 2x - y = -7 \end{cases}$$

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

⑤ 
$$\begin{cases} x + y = -4 \\ 4x + y = -7 \end{cases}$$

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

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■ 次の連立方程式を解きなさい。

$$\begin{array}{l} \textcircled{1} \quad \left\{ \begin{array}{l} 3x - 5y = -21 \\ 3x + 4y = 33 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} y = 6 \text{ を } \textcircled{1} \text{ に代入して} \\ 3x - 30 = -21 \end{array} \\ \qquad \qquad \qquad \begin{array}{l} 3x = 9 \\ 3x = 9 \\ \textcircled{1} - \textcircled{2} \text{ より } -9y = -54 \end{array} \\ \qquad \qquad \qquad \begin{array}{l} x = 3 \\ y = 6 \end{array} \end{array}$$

$x = 3, y = 6$

$$\begin{array}{l} \textcircled{2} \quad \left\{ \begin{array}{l} 3x + 4y = 23 \\ 5x + 4y = 25 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} x = 1 \text{ を } \textcircled{1} \text{ に代入して} \\ 3 + 4y = 23 \end{array} \\ \qquad \qquad \qquad \begin{array}{l} 4y = 20 \\ 4y = 20 \\ \textcircled{1} - \textcircled{2} \text{ より } -2x = -2 \end{array} \\ \qquad \qquad \qquad \begin{array}{l} y = 5 \\ x = 1 \end{array} \end{array}$$

$x = 1, y = 5$

$$\begin{array}{l} \textcircled{3} \quad \left\{ \begin{array}{l} 4x - y = -18 \\ 2x + y = -12 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} x = -5 \text{ を } \textcircled{1} \text{ に代入して} \\ -20 - y = -18 \end{array} \\ \qquad \qquad \qquad \begin{array}{l} -y = 2 \\ -y = 2 \\ \textcircled{1} + \textcircled{2} \text{ より } 6x = -30 \end{array} \\ \qquad \qquad \qquad \begin{array}{l} y = -2 \\ x = -5 \end{array} \end{array}$$

$x = -5, y = -2$

$$\begin{array}{l} \textcircled{4} \quad \left\{ \begin{array}{l} 2x - 3y = 7 \\ 2x - y = -7 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} y = -7 \text{ を } \textcircled{1} \text{ に代入して} \\ 2x + 21 = 7 \end{array} \\ \qquad \qquad \qquad \begin{array}{l} 2x = -14 \\ 2x = -14 \\ \textcircled{1} - \textcircled{2} \text{ より } -2y = 14 \end{array} \\ \qquad \qquad \qquad \begin{array}{l} x = -7 \\ y = -7 \end{array} \end{array}$$

$x = -7, y = -7$

$$\begin{array}{l} \textcircled{5} \quad \left\{ \begin{array}{l} x + y = -4 \\ 4x + y = -7 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} x = -1 \text{ を } \textcircled{1} \text{ に代入して} \\ -1 + y = -4 \end{array} \\ \qquad \qquad \qquad \begin{array}{l} y = -3 \\ \textcircled{1} - \textcircled{2} \text{ より } -3x = 3 \end{array} \\ \qquad \qquad \qquad \begin{array}{l} x = -1 \\ y = -3 \end{array} \end{array}$$

$x = -1, y = -3$