

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

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

②
$$\begin{cases} x+2y = -10 \\ x-y = -1 \end{cases}$$

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

③
$$\begin{cases} 5x-y = -26 \\ 5x+4y = -21 \end{cases}$$

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

④
$$\begin{cases} x-3y = -4 \\ 2x+3y = -17 \end{cases}$$

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

⑤
$$\begin{cases} 5x-3y = 7 \\ 5x+2y = 37 \end{cases}$$

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

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$$\begin{array}{l} \textcircled{1} \quad \left\{ \begin{array}{l} 2x+3y=25 \\ x+3y=23 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} x=2 \text{ を } \textcircled{1} \text{ に代入して} \\ 4+3y=25 \end{array} \\ \qquad \qquad \qquad \begin{array}{l} 3y=21 \\ y=7 \end{array} \\ \textcircled{1}-\textcircled{2} \text{ より } x=2 \end{array}$$

$$x = 2, y = 7$$

$$\begin{array}{l} \textcircled{2} \quad \left\{ \begin{array}{l} x+2y=-10 \\ x-y=-1 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} y=-3 \text{ を } \textcircled{1} \text{ に代入して} \\ x-6=-10 \end{array} \\ \qquad \qquad \qquad \begin{array}{l} x=-4 \end{array} \\ \textcircled{1}-\textcircled{2} \text{ より } 3y=-9 \end{array}$$

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

$$\begin{array}{l} \textcircled{3} \quad \left\{ \begin{array}{l} 5x-y=-26 \\ 5x+4y=-21 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} y=1 \text{ を } \textcircled{1} \text{ に代入して} \\ 5x-1=-26 \end{array} \\ \qquad \qquad \qquad \begin{array}{l} 5x=-25 \\ x=-5 \end{array} \\ \textcircled{1}-\textcircled{2} \text{ より } -5y=-5 \\ \qquad \qquad \qquad y=1 \end{array}$$

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

$$\begin{array}{l} \textcircled{4} \quad \left\{ \begin{array}{l} x-3y=-4 \\ 2x+3y=-17 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} x=-7 \text{ を } \textcircled{1} \text{ に代入して} \\ -7-3y=-4 \end{array} \\ \qquad \qquad \qquad \begin{array}{l} -3y=3 \\ y=-1 \end{array} \\ \textcircled{1}+\textcircled{2} \text{ より } 3x=-21 \\ \qquad \qquad \qquad x=-7 \end{array}$$

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

$$\begin{array}{l} \textcircled{5} \quad \left\{ \begin{array}{l} 5x-3y=7 \\ 5x+2y=37 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} y=6 \text{ を } \textcircled{1} \text{ に代入して} \\ 5x-18=7 \end{array} \\ \qquad \qquad \qquad \begin{array}{l} 5x=25 \\ x=5 \end{array} \\ \textcircled{1}-\textcircled{2} \text{ より } -5y=-30 \\ \qquad \qquad \qquad y=6 \end{array}$$

$$x = 5, y = 6$$