

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。

$$\textcircled{1} \quad \begin{cases} 3x + 4y = 19 \\ 5x + 4y = 21 \end{cases}$$

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

$$\textcircled{2} \quad \begin{cases} 5x - y = 34 \\ 5x - 2y = 38 \end{cases}$$

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

$$\textcircled{3} \quad \begin{cases} 3x - y = 11 \\ 2x + y = -1 \end{cases}$$

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

$$\textcircled{4} \quad \begin{cases} 5x - 3y = -16 \\ 5x + 2y = -31 \end{cases}$$

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

$$\textcircled{5} \quad \begin{cases} 6x + y = -41 \\ 2x + y = -13 \end{cases}$$

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

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$$\begin{array}{l} \textcircled{1} \quad \left\{ \begin{array}{l} 3x+4y=19 \\ 5x+4y=21 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} x=1 \text{ を } \textcircled{1} \text{ に代入して} \\ 3+4y=19 \end{array} \\ \qquad \qquad \qquad \begin{array}{l} 4y=16 \\ y=4 \end{array} \\ \textcircled{1}-\textcircled{2} \text{ より } -2x=-2 \\ \qquad \qquad \qquad x=1 \end{array}$$

$x = 1, y = 4$

$$\begin{array}{l} \textcircled{2} \quad \left\{ \begin{array}{l} 5x-y=34 \\ 5x-2y=38 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} y=-4 \text{ を } \textcircled{1} \text{ に代入して} \\ 5x+4=34 \end{array} \\ \qquad \qquad \qquad \begin{array}{l} 5x=30 \\ x=6 \end{array} \\ \textcircled{1}-\textcircled{2} \text{ より } y=-4 \end{array}$$

$x = 6, y = -4$

$$\begin{array}{l} \textcircled{3} \quad \left\{ \begin{array}{l} 3x-y=11 \\ 2x+y=-1 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} x=2 \text{ を } \textcircled{1} \text{ に代入して} \\ 6-y=11 \end{array} \\ \qquad \qquad \qquad \begin{array}{l} -y=5 \\ y=-5 \end{array} \\ \textcircled{1}+\textcircled{2} \text{ より } 5x=10 \\ \qquad \qquad \qquad x=2 \end{array}$$

$x = 2, y = -5$

$$\begin{array}{l} \textcircled{4} \quad \left\{ \begin{array}{l} 5x-3y=-16 \\ 5x+2y=-31 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} y=-3 \text{ を } \textcircled{1} \text{ に代入して} \\ 5x+9=-16 \end{array} \\ \qquad \qquad \qquad \begin{array}{l} 5x=-25 \\ x=-5 \end{array} \\ \textcircled{1}-\textcircled{2} \text{ より } -5y=15 \\ \qquad \qquad \qquad y=-3 \end{array}$$

$x = -5, y = -3$

$$\begin{array}{l} \textcircled{5} \quad \left\{ \begin{array}{l} 6x+y=-41 \\ 2x+y=-13 \end{array} \right. \cdots \textcircled{1} \\ \qquad \qquad \qquad \begin{array}{l} x=-7 \text{ を } \textcircled{1} \text{ に代入して} \\ -42+y=-41 \end{array} \\ \qquad \qquad \qquad \begin{array}{l} y=1 \end{array} \\ \textcircled{1}-\textcircled{2} \text{ より } 4x=-28 \\ \qquad \qquad \qquad x=-7 \end{array}$$

$x = -7, y = 1$