

# 連立方程式

年 組 名前

/5

■ 次の連立方程式を解きなさい。

$$\textcircled{1} \begin{cases} 3x - 5y = -31 \\ 3x + y = -19 \end{cases}$$

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

$$\textcircled{2} \begin{cases} 4x - 3y = 19 \\ x + 3y = 16 \end{cases}$$

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

$$\textcircled{3} \begin{cases} 3x + 2y = 8 \\ 3x + 5y = 29 \end{cases}$$

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

$$\textcircled{4} \begin{cases} 5x + 2y = 13 \\ x + 2y = -7 \end{cases}$$

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

$$\textcircled{5} \begin{cases} 2x - 3y = -9 \\ 2x - y = -11 \end{cases}$$

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

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$$\textcircled{1} \begin{cases} 3x - 5y = -31 & \cdots\textcircled{1} \\ 3x + y = -19 & \cdots\textcircled{2} \end{cases} \quad y = 2 \text{ を } \textcircled{1} \text{ に代入して}$$

$$3x - 10 = -31$$

$$3x = -21$$

$$x = -7$$

$$\textcircled{1} - \textcircled{2} \text{ より } -6y = -12$$

$$y = 2$$

$$x = -7, \quad y = 2$$

$$\textcircled{2} \begin{cases} 4x - 3y = 19 & \cdots\textcircled{1} \\ x + 3y = 16 & \cdots\textcircled{2} \end{cases} \quad x = 7 \text{ を } \textcircled{1} \text{ に代入して}$$

$$28 - 3y = 19$$

$$-3y = -9$$

$$y = 3$$

$$\textcircled{1} + \textcircled{2} \text{ より } 5x = 35$$

$$x = 7$$

$$x = 7, \quad y = 3$$

$$\textcircled{3} \begin{cases} 3x + 2y = 8 & \cdots\textcircled{1} \\ 3x + 5y = 29 & \cdots\textcircled{2} \end{cases} \quad y = 7 \text{ を } \textcircled{1} \text{ に代入して}$$

$$3x + 14 = 8$$

$$3x = -6$$

$$x = -2$$

$$\textcircled{1} - \textcircled{2} \text{ より } -3y = -21$$

$$y = 7$$

$$x = -2, \quad y = 7$$

$$\textcircled{4} \begin{cases} 5x + 2y = 13 & \cdots\textcircled{1} \\ x + 2y = -7 & \cdots\textcircled{2} \end{cases} \quad x = 5 \text{ を } \textcircled{1} \text{ に代入して}$$

$$25 + 2y = 13$$

$$2y = -12$$

$$y = -6$$

$$\textcircled{1} - \textcircled{2} \text{ より } 4x = 20$$

$$x = 5$$

$$x = 5, \quad y = -6$$

$$\textcircled{5} \begin{cases} 2x - 3y = -9 & \cdots\textcircled{1} \\ 2x - y = -11 & \cdots\textcircled{2} \end{cases} \quad y = -1 \text{ を } \textcircled{1} \text{ に代入して}$$

$$2x + 3 = -9$$

$$2x = -12$$

$$x = -6$$

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

$$y = -1$$

$$x = -6, \quad y = -1$$