

【中2数学 | 連立方程式】

単元別演習

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1、次の連立方程式を解きなさい。

$$\square(1) \begin{cases} x + y = 12 \cdots \textcircled{1} \\ x - y = 4 \cdots \textcircled{2} \end{cases}$$

① + ② して

$$2x = 16 \quad \therefore x = 8$$

① に代入

$$8 + y = 12 \quad \therefore y = 4$$

$$\therefore x = 8, y = 4$$

$$\square(2) \begin{cases} 2x + y = 4 \cdots \textcircled{1} \\ 3x + y = 7 \cdots \textcircled{2} \end{cases}$$

① - ② して

$$-x = -3 \quad \therefore x = 3$$

① に代入

$$6 + y = 4 \quad \therefore y = -2$$

$$\therefore x = 3, y = -2$$

$$\square(3) \begin{cases} 5x - 2y = -6 \cdots \textcircled{1} \\ x - 2y = 2 \cdots \textcircled{2} \end{cases}$$

① - ② して

$$4x = -8 \quad \therefore x = -2$$

② に代入

$$-2 - 2y = 2$$

$$-2y = 4 \quad \therefore y = -2$$

$$\therefore x = -2, y = -2$$

$$\square(4) \begin{cases} 4x - 3y = -7 \cdots \textcircled{1} \\ -2x + 3y = 5 \cdots \textcircled{2} \end{cases}$$

① + ② して

$$2x = -2 \quad \therefore x = -1$$

① に代入

$$-4 - 3y = -7$$

$$-3y = -3 \quad \therefore y = 1$$

$$\therefore x = -1, y = 1$$

$$\square(5) \begin{cases} 3x - 5y = -7 \cdots \textcircled{1} \\ 3x + 2y = 7 \cdots \textcircled{2} \end{cases}$$

① - ② して

$$-7y = -14 \quad \therefore y = 2$$

② に代入

$$3x + 4 = 7$$

$$3x = 3 \quad \therefore x = 1$$

$$\therefore x = 1, y = 2$$

$$\square(6) \begin{cases} 4x - y = 10 \cdots \textcircled{1} \\ -4x + 5y = -18 \cdots \textcircled{2} \end{cases}$$

① + ② して

$$4y = -8 \quad \therefore y = -2$$

① に代入

$$4x - (-2) = 10$$

$$4x = 8 \quad \therefore x = 2$$

$$\therefore x = 2, y = -2$$