

1次方程式の解き方3

NO.1

名前

／8 点

◆ 次の方程式を解きなさい。

(1) $2x + 7 = 5x + 16$

(2) $4x - 2 = -27 - x$

(3) $8x + 7 = 3x - 3$

(4) $16 - 3x = -24 + 5x$

(5) $7 - x = 10x - 5$

(6) $6x - 15 = 2x - 39$

(7) $5x - 12 = 3x + 2$

(8) $3x - 9 = 7x + 23$

解答

$$\begin{aligned}
 (1) \quad & 2x + 7 = 5x + 16 \\
 & 2x - 5x = 16 - 7 \\
 & -3x = 9 \\
 & x = -3
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & 4x - 2 = -27 - x \\
 & 4x + x = -27 + 2 \\
 & 5x = -25 \\
 & x = -5
 \end{aligned}$$

$$\begin{aligned}
 (3) \quad & 8x + 7 = 3x - 3 \\
 & 8x - 3x = -3 - 7 \\
 & 5x = -10 \\
 & x = -2
 \end{aligned}$$

$$\begin{aligned}
 (4) \quad & 16 - 3x = -24 + 5x \\
 & -3x - 5x = -24 - 16 \\
 & -8x = -40 \\
 & x = 5
 \end{aligned}$$

$$\begin{aligned}
 (5) \quad & 7 - x = 10x - 5 \\
 & -x - 10x = -5 - 7 \\
 & -11x = -12 \\
 & x = \frac{12}{11}
 \end{aligned}$$

$$\begin{aligned}
 (6) \quad & 6x - 15 = x - 39 \\
 & 6x - 2x = -39 + 15 \\
 & 4x = -24 \\
 & x = -6
 \end{aligned}$$

$$\begin{aligned}
 (7) \quad & 5x - 12 = 3x + 2 \\
 & 5x - 3x = 2 + 12 \\
 & 2x = 14 \\
 & x = 7
 \end{aligned}$$

$$\begin{aligned}
 (8) \quad & 3x - 9 = 7x + 23 \\
 & 3x - 7x = 23 + 9 \\
 & -4x = 32 \\
 & x = -8
 \end{aligned}$$