

数学科 方程式マスター C-②

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次の x についての方程式を解きなさい。

① $-2-5x=2-x$

② $-x+9=-3x+27$

③ $-6x+2=-48-x$

④ $2x-4=-3x-24$

⑤ $15x-6=5x+2$

⑥ $-2x+10=-3x+2$

⑦ $-19x+8=-4x+20$

⑧ $7x+6=2x+6$

⑨ $4x+9=6x-5$

⑩ $1+x=-2x-5$

次の x についての方程式を解きなさい。

$$\begin{aligned} \textcircled{1} \quad & -2 - 5x = 2 - x \\ & -5x + x = 2 + 2 \\ & -4x = 4 \\ & -4x \div (-4) = 4 \div (-4) \\ & x = -1 \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & -x + 9 = -3x + 27 \\ & -x + 3x = 27 - 9 \\ & 2x = 18 \\ & 2x \div 2 = 18 \div 2 \\ & x = 9 \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & -6x + 2 = -48 - x \\ & -6x + x = -48 - 2 \\ & -5x = -50 \\ & -5x \div (-5) = -50 \div (-5) \\ & x = 10 \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & 2x - 4 = -3x - 24 \\ & 2x + 3x = -24 + 4 \\ & 5x = -20 \\ & 5x \div 5 = -20 \div 5 \\ & x = -4 \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad & 15x - 6 = 5x + 2 \\ & 15x - 5x = 2 + 6 \\ & 10x = 8 \\ & 10x \div 10 = 8 \div 10 \\ & x = \frac{8}{10} \\ & x = \frac{4}{5} \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad & -2x + 10 = -3x + 2 \\ & -2x + 3x = 2 - 10 \\ & x = -8 \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad & -19x + 8 = -4x + 20 \\ & -19x + 4x = 20 - 8 \\ & -15x = 12 \\ & -15x \div (-15) = 12 \div (-15) \\ & x = -\frac{12}{15} \\ & x = -\frac{4}{5} \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad & 7x + 6 = 2x + 6 \\ & 7x - 2x = 6 - 6 \\ & 5x = 0 \\ & 5x \div 5 = 0 \div 5 \dots \star \\ & x = 0 \end{aligned}$$

⑧ $5x = 0$ は
 $5 \times x = 0$ のことなので
 (5にxをかけるとう0になる。
 xに入る数は何?ということ
 なので) ☆の式は省略して
 $x = 0$ と書いてもOK!

$$\begin{aligned} \textcircled{9} \quad & 4x + 9 = 6x - 5 \\ & 4x - 6x = -5 - 9 \\ & -2x = -14 \\ & -2x \div (-2) = -14 \div (-2) \\ & x = 7 \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad & 1 + x = -2x - 5 \\ & x + 2x = -5 - 1 \\ & 3x = -6 \\ & 3x \div 3 = -6 \div 3 \\ & x = -2 \end{aligned}$$