

1 次方程式 かつこのある方程式 解答編

I

$$\begin{aligned} \textcircled{1} \quad & 4(x-2) = 3(x+1) \\ & 4x-8 = 3x+3 \\ & 4x-3x = 3+8 \\ & x = 11 \end{aligned}$$

答. $x = 11$

$$\begin{aligned} \textcircled{2} \quad & 7(x-1) = 42 \\ & 7x-7 = 42 \\ & 7x = 42+7 \\ & 7x = 49 \\ & x = \frac{49}{7} \\ & x = 7 \end{aligned}$$

答. $x = 7$

$$\begin{aligned} \textcircled{3} \quad & 6-5(x-2) = -4 \\ & 6-5x+10 = -4 \\ & -5x = -4-6-10 \\ & -5x = -20 \\ & x = \frac{-20}{-5} \\ & x = 4 \end{aligned}$$

答. $x = 4$

$$\begin{aligned} \textcircled{4} \quad & 7=4(2x-1)-3(4x-5) \\ & 7=8x-4-12x+15 \\ & -8x+12x = -4+15-7 \\ & 4x = 4 \\ & x = \frac{4}{4} \\ & x = 1 \end{aligned}$$

答. $x = 1$

$$\begin{aligned} \textcircled{5} \quad & 3(x-4)-2(x-2)=0 \\ & 3x-12-2x+4=0 \\ & 3x-2x=0+12-4 \\ & x = 8 \end{aligned}$$

答. $x = 8$

$$\begin{aligned} \textcircled{6} \quad & 4(x+3) = 7x \\ & 4x+12 = 7x \\ & 4x-7x = -12 \\ & -3x = -12 \\ & x = \frac{-12}{-3} \\ & x = 4 \end{aligned}$$

答. $x = 4$

$$\begin{aligned} \textcircled{7} \quad & 3x-6(18-x) = 9 \\ & 3x-108+6x = 9 \\ & 3x+6x = 9+108 \\ & 9x = 117 \\ & x = \frac{117}{9} \\ & x = 13 \end{aligned}$$

答. $x = 13$

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

答. $x = 2$

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II

$$\begin{aligned} \textcircled{1} \quad & 2x-3(x-4) = 7 \\ & 2x-3x+12 = 7 \\ & 2x-3x = 7-12 \\ & -x = -5 \\ & x = \frac{-5}{-1} \end{aligned}$$

答. $x = 5$

$$\begin{aligned} \textcircled{2} \quad & 5(x+1) = 10(2+x) \\ & 5x+5 = 20+10x \\ & 5x-10x = 20-5 \\ & -5x = 15 \\ & x = \frac{15}{-5} \\ & x = -3 \end{aligned}$$

答. $x = -3$

$$\begin{aligned} \textcircled{3} \quad & 4(x+4) + 1 = 65 \\ & 4x+16 + 1 = 65 \\ & 4x = 65-16-1 \\ & 4x = 48 \\ & x = \frac{48}{4} \\ & x = 12 \end{aligned}$$

答. $x = 12$

$$\begin{aligned} \textcircled{4} \quad & 2x-3(2-x) = 4 \\ & 2x-6+3x = 4 \\ & 2x+3x = 4+6 \\ & 5x = 10 \\ & x = \frac{10}{5} \end{aligned}$$

答. $x = 2$

$$\begin{aligned} \textcircled{5} \quad & 3 = 1 - (8-2x) \\ & 3 = 1 - 8 + 2x \\ & -2x = 1-8-3 \\ & -2x = -10 \\ & x = \frac{-10}{-2} \end{aligned}$$

答. $x = 5$

$$\begin{aligned} \textcircled{6} \quad & 3(x-5)-2(x+10)=4 \\ & 3x-15-2x-20 = 4 \\ & 3x-2x = 4+15+20 \\ & x = 39 \end{aligned}$$

答. $x = 39$

$$\begin{aligned} \textcircled{7} \quad & 5-3(x-1) = 7x+8 \\ & 5-3x+3 = 7x+8 \\ & -3x-7x = 8-5-3 \\ & -10x = 0 \\ & x = \frac{0}{-10} \\ & x = 0 \end{aligned}$$

答. $x = 0$

$$\begin{aligned} \textcircled{8} \quad & 5(x-3)-8(-2+x) = -5 \\ & 5x-15 + 16-8x = -5 \\ & 5x-8x = -5+15-16 \\ & -3x = -6 \\ & x = \frac{-6}{-3} \end{aligned}$$

答. $x = 2$