

中1の復習 『かっこをふくむ方程式の解き方』

1 次の計算をしなさい。

① $3(2x+4)+1=19$

② $5(x-8)-x=14x$

③ $8x-(6x-3)=13$

④ $2(-2x+4)+7x=-x$

⑤ $3(x+2)-4x=7$

⑥ $9+5(x-6)=2x$

⑦ $x-2(4-x)=-11$

⑧ $7-4(x-2)=-3x$

⑨ $2(-x+6)-3(x+7)=1$

⑩ $-8(x-1)+1=3(x+14)$

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1 答え

- ① $x=1$ ② $x=-4$ ③ $x=5$ ④ $x=-2$
 ⑤ $x=-1$ ⑥ $x=7$ ⑦ $x=-1$ ⑧ $x=15$
 ⑨ $x=-2$ ⑩ $x=-3$

解説

かっこをふくむ方程式は、分配法則を使ってかっこをはずしてから、移項して解く。

$$\begin{aligned} \textcircled{1} \quad 3(2x+4)+1 &= 19 \\ 6x+12+1 &= 19 \\ 6x &= 6 \\ x &= 1 \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad 5(x-8)-x &= 14x \\ 5x-40-x &= 14x \\ -10x &= 40 \\ x &= -4 \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad 8x-(6x-3) &= 13 \\ 8x-6x+3 &= 13 \\ 2x &= 10 \\ x &= 5 \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad 2(-2x+4)+7x &= -x \\ -4x+8+7x &= -x \\ 4x &= -8 \\ x &= -2 \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad 3(x+2)-4x &= 7 \\ 3x+6-4x &= 7 \\ -x &= 1 \\ x &= -1 \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad 9+5(x-6) &= 2x \\ 9+5x-30 &= 2x \\ 3x &= 21 \\ x &= 7 \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad x-2(4-x) &= -11 \\ x-8+2x &= -11 \\ 3x &= -3 \\ x &= -1 \end{aligned}$$

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

$$\begin{aligned} \textcircled{9} \quad 2(-x+6)-3(x+7) &= 1 \\ -2x+12-3x-21 &= 1 \\ -5x &= 10 \\ x &= -2 \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad -8(x-1)+1 &= 3(x+14) \\ -8x+8+1 &= 3x+42 \\ -11x &= 33 \\ x &= -3 \end{aligned}$$