

## 【中1 数学 | 方程式】



【1】次の方程式を解きなさい。

$$(1) \quad 3x + 2 = x + 1$$

$$\begin{aligned} 2x &= -1 \\ \therefore x &= -\frac{1}{2} \end{aligned}$$

$$(5) \quad -5(2x + 3) + 6x = 8x + 21$$

$$\begin{aligned} -10x - 15 + 6x &= 8x + 21 \\ -12x &= 36 \\ \therefore x &= -3 \end{aligned}$$

$$(2) \quad 3 - 2x = 3x - 17$$

$$\begin{aligned} -5x &= -20 \\ \therefore x &= 4 \end{aligned}$$

$$(6) \quad \frac{x+2}{2} = \frac{4x-7}{3}$$

$$\begin{aligned} 3(x+2) &= 2(4x-7) \\ 3x+6 &= 8x-14 \\ -5x &= -20 \\ \therefore x &= 4 \end{aligned}$$

$$(3) \quad 8x - 2 = 3(x + 2)$$

$$\begin{aligned} 8x - 2 &= 3x + 6 \\ 5x &= 8 \\ \therefore x &= \frac{8}{5} \end{aligned}$$

$$(7) \quad \frac{x-1}{2} + \frac{x}{3} = 1$$

$$\begin{aligned} 3(x-1) + 2x &= 6 \\ 3x - 3 + 2x &= 6 \\ 5x &= 9 \\ \therefore x &= \frac{9}{5} \end{aligned}$$

$$(4) \quad 0.2(x + 4) = x - 1.2$$

$$\begin{aligned} 2(x+4) &= 10x - 12 \\ 2x + 8 &= 10x - 12 \\ -8x &= -20 \\ x &= \frac{-20}{-8} = \frac{5}{2} \\ \therefore x &= \frac{5}{2} \end{aligned}$$

$$(8)$$

$$\begin{aligned} \frac{2-5x}{3} + 3 &= \frac{7x-3}{9} \\ 3(2-5x) + 27 &= 7x-3 \\ 6 - 15x + 27 &= 7x-3 \\ -22x &= -36 \\ \therefore x &= \frac{36}{22} \end{aligned}$$

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