

中1~第28回小数をふくむ方程式~

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解答・解説

例題 次の方程式を解きなさい。

(1) $1 - 0.9x = 4.6$

$$\begin{aligned} 10 - 9x &= 46 && \times 10 \\ -9x &= 46 - 10 \\ -9x &= 36 \\ x &= -4 \end{aligned}$$

(2) $0.3 - 0.13x = -0.08x$

$$\begin{aligned} 30 - 13x &= -8x && \times 100 \\ -13x + 8x &= -30 \\ -5x &= -30 \\ x &= 6 \end{aligned}$$

(3) $0.3(x - 1.5) = 0.2x + 1$

$$\begin{aligned} 3(x - 1.5) &= 2x + 10 && \times 10 \\ 3x - 4.5 &= 2x + 10 \\ 3x - 2x &= 10 + 4.5 \\ x &= 14.5 \end{aligned}$$

(4) $2 - \frac{x-2}{3} = 0.6(1+x)$

$$\begin{aligned} 2 - \frac{x-2}{3} &= \frac{3}{5}(1+x) \\ 30 - 5x + 10 &= 9(1+x) && \times 15 \\ 30 - 5x + 10 &= 9 + 9x \\ -5x - 9x &= 9 - 30 - 10 \\ -14x &= -31 \\ x &= \frac{31}{14} \end{aligned}$$