

第43回 1次式の混合計算 演習編1

解答

$$\begin{aligned} \textcircled{1} \quad & -2(x+5) - 6 - (3-4x) \\ & = -2x - 10 - 6 - 3 + 4x \\ & = 2x - 19 \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & \frac{1}{2}(4x-2) - \frac{3}{4}(8x-4) \\ & = 2x - 1 - 6x + 3 \\ & = -4x + 2 \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & \frac{x-8}{4} + \frac{3x+8}{2} \\ & = \frac{1}{4}(x-8) + \frac{1}{2}(3x+8) = \frac{1}{4}x - 2 + \frac{3}{2}x + 4 \\ & = \frac{1}{4}x + \frac{6}{4}x - 2 + 4 = \frac{7}{4}x + 2 \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & 2x + 3 + \frac{x-15}{2} \\ & = 2x + 3 + \frac{1}{2}(x-15) = 2x + 3 + \frac{1}{2}x - \frac{15}{2} \\ & = \frac{4}{2}x + \frac{1}{2}x + \frac{6}{2} - \frac{15}{2} = \frac{5}{2}x - \frac{9}{2} \end{aligned}$$

⑤授業の解答に誤りがあります。正しい解説は次回実施します。

$$\begin{aligned} & 4\left(\frac{3x+1}{2} - \frac{5x-3}{4}\right) \\ & = 4 \times \frac{1}{2}(3x+1) - 4 \times \frac{1}{4}(5x-3) \\ & = 2(3x+1) - (5x-3) \\ & = 6x + 2 - 5x + 3 \\ & = x + 5 \end{aligned}$$