第44回　１次式の混合計算　演習編２

解答

⑤前回授業内容の訂正

$$4\left(\frac{3x+1}{2}-\frac{5x-3}{4}\right)$$

$$=4\times\frac{1}{2}(3x+1)-4\times\frac{1}{4}(5x-3)\ =2(3x+1)-(5x-3)\ =6x+2-5x+3\ =x+5$$

① $\frac{1}{4}(6x-10)+\frac{1}{8}(12x-3)$

$$=\frac{6}{4}x-\frac{10}{4}+\frac{12}{8}x-\frac{3}{8}\ =\frac{3}{2}x+\frac{3}{2}x-\frac{5}{2}-\frac{3}{8}$$

$$=\frac{6}{2}x-\frac{20}{8}-\frac{3}{8}\ =3x-\frac{23}{8}$$

② $6\left(\frac{1}{4}x-\frac{1}{2}\right)+4\left(\frac{x}{8}+\frac{1}{2}\right)$

$$=\frac{6}{4}x-\frac{6}{2}+\frac{4}{8}x+\frac{4}{2}\ =\frac{3}{2}x+\frac{1}{2}x-3+2\ =\frac{4}{2}x-1\ =2x-1$$

③ $\frac{3}{4}x+\frac{2x-3}{3}-\frac{6-5x}{2}$

$$=\frac{3}{4}x+\frac{1}{3}(2x-3)-\frac{1}{2}(6-5x)\ =\frac{3}{4}x+\frac{2}{3}x-\frac{3}{3}-\frac{6}{2}+\frac{5}{2}x$$

$$=\frac{9}{12}x+\frac{8}{12}x+\frac{30}{12}x-1-3\ =\frac{47}{12}x-4$$

④ $2\left(\frac{2x+1}{3}-\frac{3x-2}{4}\right)$

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

$$=\frac{4}{3}x+\frac{2}{3}-\frac{3}{2}x+1\ =\frac{8}{6}x-\frac{9}{6}x+\frac{2}{3}+\frac{3}{3}$$

$$=-\frac{1}{6}x+\frac{5}{3}$$