

62

1 次式の計算

年 組 番 名前

● 例題 1 ●

次の計算をなさい。

$$\begin{aligned} (1) & 2(a-3)+3(2a+1) \\ &= 2a-6+6a+3 \\ &= \underline{8a-3} \quad \rightarrow 59\text{の例題3、60の例題3へ} \end{aligned}$$

問1 次の計算をなさい。

$$\begin{aligned} (1) & 3(a+2)+2(a+1) \\ &= 3a+6+2a+2 \\ &= 5a+8 \\ & \quad \quad \quad \underline{\underline{\text{答. } 5a+8}} \end{aligned}$$

$$\begin{aligned} (2) & 2(a+4)+3(2a-3) \\ &= 2a+8+6a-9 \\ &= 8a-1 \\ & \quad \quad \quad \underline{\underline{\text{答. } 8a-1}} \end{aligned}$$

$$\begin{aligned} (3) & 3(2x-5)+4(-3x+2) \\ &= 6x-15-12x+8 \\ &= -6x-7 \\ & \quad \quad \quad \underline{\underline{\text{答. } -6x-7}} \end{aligned}$$

$$\begin{aligned} (4) & 3(-4x-7)+2(6x+5) \\ &= -12x-21+12x+10 \\ &= -11 \\ & \quad \quad \quad \underline{\underline{\text{答. } -11}} \end{aligned}$$

$$\begin{aligned} (5) & 2(x-9)+5(3-2x) \\ &= 2x-18+15-10x \\ &= -8x-3 \\ & \quad \quad \quad \underline{\underline{\text{答. } -8x-3}} \end{aligned}$$

● 例題 2 ●

次の計算をなさい。

$$\begin{aligned} (1) & 3(x+1)-5(x-2) \\ &= 3x+3-5x+10 \\ &= \underline{-2x+13} \quad \rightarrow 59\text{の例題3、60の例題3へ} \end{aligned}$$

問2 次の計算をなさい。

$$\begin{aligned} (1) & 4(a+2)-2(a+2) \\ &= 4a+8-2a-4 \\ &= 2a+4 \\ & \quad \quad \quad \underline{\underline{\text{答. } 2a+4}} \end{aligned}$$

$$\begin{aligned} (2) & 3(2a-3)-2(a-4) \\ &= 6a-9-2a+8 \\ &= 4a-1 \\ & \quad \quad \quad \underline{\underline{\text{答. } 4a-1}} \end{aligned}$$

$$\begin{aligned} (3) & 3(3x-1)-4(2x-1) \\ &= 9x-3-8x+4 \\ &= x+1 \\ & \quad \quad \quad \underline{\underline{\text{答. } x+1}} \end{aligned}$$

$$\begin{aligned} (4) & 3(3x+5)-5(2x+3) \\ &= 9x+15-10x-15 \\ &= -x \\ & \quad \quad \quad \underline{\underline{\text{答. } -x}} \end{aligned}$$

● 例題 3 ●

次の計算をなさい。

$$\begin{aligned} (1) & \frac{1}{4}(5x-3)-\frac{1}{8}(7x-6) \\ &= \frac{5}{4}x-\frac{3}{4}-\frac{7}{8}x+\frac{6}{8} \\ &= \frac{10}{8}x-\frac{7}{8}x-\frac{3}{4}+\frac{3}{4} \\ &= \underline{\underline{\frac{3}{8}x}} \quad \rightarrow 62\text{の例題1、2へ} \end{aligned}$$

問3 次の計算をなさい。

$$\begin{aligned} (1) & \frac{1}{4}(3x-2)-\frac{1}{8}(5x-4) \\ &= \frac{3}{4}x-\frac{2}{4}-\frac{5}{8}x+\frac{4}{8} \\ &= \frac{6}{8}x-\frac{5}{8}x-\frac{1}{2}+\frac{1}{2} \\ &= \frac{1}{8}x \\ & \quad \quad \quad \underline{\underline{\text{答. } \frac{1}{8}x}} \end{aligned}$$

$$\begin{aligned} (2) & \frac{1}{9}(3x+7)-\frac{1}{3}(x+1) \quad (2009\text{年神奈川県}) \\ &= \frac{3}{9}x+\frac{7}{9}-\frac{1}{3}x-\frac{1}{3} \\ &= \frac{3}{9}x-\frac{3}{9}x+\frac{7}{9}-\frac{3}{9} \\ &= \frac{4}{9} \\ & \quad \quad \quad \underline{\underline{\text{答. } \frac{4}{9}}} \end{aligned}$$

$$\begin{aligned} (3) & \frac{1}{2}(x+2)-\frac{1}{6}(3x+1) \quad (2007\text{年神奈川県}) \\ &= \frac{1}{2}x+\frac{2}{2}-\frac{3}{6}x-\frac{1}{6} \\ &= \frac{1}{2}x-\frac{1}{2}x+\frac{6}{6}-\frac{1}{6} \\ &= \frac{5}{6} \\ & \quad \quad \quad \underline{\underline{\text{答. } \frac{5}{6}}} \end{aligned}$$