

1 解答 (1) -11 (2) -9 (3) $\frac{3x+y}{2}$ (4) $-2\sqrt{3}$ (5) $(x+12)(x-3)$

$$\begin{aligned} (1) \quad & 6-17 \\ & = -11 \end{aligned}$$

$$\begin{aligned} (2) \quad & 6 \div \left(-\frac{2}{3}\right) \\ & = 6 \times \left(-\frac{3}{2}\right) \\ & = -9 \end{aligned}$$

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

$$\begin{aligned} (4) \quad & (\sqrt{3}+1)(\sqrt{3}-3) \\ & = (\sqrt{3})^2+(1-3)\times\sqrt{3}+1\times(-3) \\ & = 3-2\sqrt{3}-3 \\ & = -2\sqrt{3} \end{aligned}$$

$$\begin{aligned} (5) \quad & x^2+9x-36 \\ & = x^2+(12-3)x+12\times(-3) \\ & = (x+12)(x-3) \end{aligned}$$