

1 解答 (1) 7 (2) $-\frac{1}{2}$ (3) $12x^2y$ (4) $-2\sqrt{2}$ (5) $x = \frac{1 \pm \sqrt{10}}{3}$

$$\begin{aligned} (1) \quad & 2 - (3 - 8) \\ &= 2 - (-5) \\ &= 2 + 5 \\ &= 7 \end{aligned}$$

$$\begin{aligned} (2) \quad & \left(\frac{1}{3} - \frac{3}{4}\right) \div \frac{5}{6} \\ &= \left(\frac{4}{12} - \frac{9}{12}\right) \times \frac{6}{5} \\ &= -\frac{5}{12} \times \frac{6}{5} \\ &= -\frac{1}{2} \end{aligned}$$

$$\begin{aligned} (3) \quad & (-4x)^2 \div 12xy \times 9xy^2 \\ &= \frac{16x^2 \times 9xy^2}{12xy} \\ &= 12x^2y \end{aligned}$$

$$\begin{aligned} (4) \quad & \sqrt{18} - \frac{10}{\sqrt{2}} \\ &= 3\sqrt{2} - \frac{10\sqrt{2}}{\sqrt{2} \times \sqrt{2}} \\ &= 3\sqrt{2} - 5\sqrt{2} \\ &= -2\sqrt{2} \end{aligned}$$

$$\begin{aligned} (5) \quad & (x - 4)(3x + 2) = -8x - 5 \\ & 3x^2 - 10x - 8 = -8x - 5 \\ & 3x^2 - 2x - 3 = 0 \\ & x = \frac{-(-2) \pm \sqrt{(-2)^2 - 4 \times 3 \times (-3)}}{2 \times 3} \\ & x = \frac{2 \pm \sqrt{40}}{6} \\ & x = \frac{2 \pm 2\sqrt{10}}{6} \\ & x = \frac{1 \pm \sqrt{10}}{3} \end{aligned}$$