

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

$$(1) \quad (-3)^2 - 4 \times 3 = 9 - 12 = -3$$

$$\begin{aligned} (2) \quad \frac{5}{4}a^2 \div \frac{15}{2}a &= \frac{5a^2}{4} \div \frac{15a}{2} \\ &= \frac{5a^2 \times 2}{4 \times 15a} \\ &= \frac{a}{6} \end{aligned}$$

$$(3) \quad a^2 - 4 = (a-2)(a+2)$$

$$(4) \quad (x-2)^2 + (x-2)(x-4) = 0$$

$$M = x-2 \text{ とおく。}$$

$$M^2 + M(x-4) = 0$$

$$M(M+x-4) = 0$$

$$(x-2)(x-2+x-4) = 0$$

$$(x-2)(2x-6) = 0$$

$$2(x-2)(x-3) = 0$$

$$(x-2)(x-3) = 0$$

$$x=2, x=3$$