

平方根 有理化 2

NO.2

名前

/12 点

◆ 次の数を,分母が $\sqrt{\quad}$ をふくまない形に変形しなさい。

(1)
$$\frac{1}{\sqrt{5}}$$

(2)
$$\frac{1}{\sqrt{7}}$$

(3)
$$\frac{3}{\sqrt{6}}$$

(4)
$$\frac{7}{\sqrt{3}}$$

(5)
$$\frac{1}{4\sqrt{2}}$$

(6)
$$\frac{3}{4\sqrt{3}}$$

(7)
$$\frac{\sqrt{5}}{\sqrt{6}}$$

(8)
$$\frac{\sqrt{2}}{\sqrt{11}}$$

(11)
$$\frac{3}{\sqrt{8}}$$

(12)
$$\frac{\sqrt{5}}{\sqrt{18}}$$

解答

$$(1) \frac{\sqrt{5}}{\sqrt{5} \times \sqrt{5}} = \frac{\sqrt{5}}{5} \quad (2) \frac{\sqrt{7}}{\sqrt{7} \times \sqrt{7}} = \frac{\sqrt{7}}{7}$$

$$(3) \frac{3\sqrt{6}}{\sqrt{6} \times \sqrt{6}} = \frac{3\sqrt{6}}{6} = \frac{\sqrt{6}}{2}$$

$$(4) \frac{7\sqrt{3}}{\sqrt{3} \times \sqrt{3}} = \frac{7\sqrt{3}}{3}$$

$$(5) \frac{\sqrt{2}}{4\sqrt{2} \times \sqrt{2}} = \frac{\sqrt{2}}{8}$$

$$(6) \frac{3\sqrt{3}}{4\sqrt{3} \times \sqrt{3}} = \frac{3\sqrt{3}}{12} = \frac{\sqrt{3}}{4}$$

$$(7) \frac{\sqrt{5} \times \sqrt{6}}{\sqrt{6} \times \sqrt{6}} = \frac{\sqrt{30}}{6}$$

$$(8) \frac{\sqrt{2} \times \sqrt{11}}{\sqrt{11} \times \sqrt{11}} = \frac{\sqrt{22}}{11}$$

$$(9) \frac{3 \times \sqrt{2}}{2\sqrt{2} \times \sqrt{2}} = \frac{3\sqrt{2}}{4}$$

$$(10) \frac{\sqrt{5} \times \sqrt{2}}{3\sqrt{2} \times \sqrt{2}} = \frac{\sqrt{10}}{6}$$