

平方根 有理化 2

NO.1

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

(2)
$$\frac{1}{\sqrt{3}}$$

(3)
$$\frac{5}{\sqrt{3}}$$

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

(5)
$$\frac{7}{2\sqrt{5}}$$

(6)
$$\frac{5}{3\sqrt{3}}$$

(7)
$$\frac{\sqrt{2}}{\sqrt{5}}$$

(8)
$$\frac{\sqrt{3}}{\sqrt{7}}$$

(11)
$$\frac{5}{\sqrt{12}}$$

(12)
$$\frac{\sqrt{5}}{\sqrt{24}}$$

解答

$$(1) \frac{\sqrt{2}}{\sqrt{2} \times \sqrt{2}} = \frac{\sqrt{2}}{2} \quad (2) \frac{\sqrt{3}}{\sqrt{3} \times \sqrt{3}} = \frac{\sqrt{3}}{3}$$

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

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

$$(5) \frac{7\sqrt{5}}{2\sqrt{5} \times \sqrt{5}} = \frac{7\sqrt{5}}{10}$$

$$(6) \frac{5\sqrt{3}}{3\sqrt{3} \times \sqrt{3}} = \frac{5\sqrt{3}}{9}$$

$$(7) \frac{\sqrt{2} \times \sqrt{5}}{\sqrt{5} \times \sqrt{5}} = \frac{\sqrt{10}}{5}$$

$$(8) \frac{\sqrt{3} \times \sqrt{7}}{\sqrt{7} \times \sqrt{7}} = \frac{\sqrt{21}}{7}$$

$$(9) \frac{5 \times \sqrt{3}}{2\sqrt{3} \times \sqrt{3}} = \frac{5\sqrt{3}}{6}$$

$$(10) \frac{\sqrt{5} \times \sqrt{6}}{2\sqrt{6} \times \sqrt{6}} = \frac{\sqrt{30}}{12}$$