

平方根 有理化 1

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名前

/ 点

◆ 分母を有理化します。空欄にあてはまる数値を答えなさい。

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

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

$$(3) \frac{7}{2\sqrt{7}} = \frac{7 \times \sqrt{7}}{2\sqrt{7} \times \sqrt{7}} = \frac{7\sqrt{7}}{14} = \frac{\sqrt{7}}{2}$$

$$(4) \frac{2\sqrt{3}}{3\sqrt{2}} = \frac{2\sqrt{3} \times \sqrt{\quad}}{3\sqrt{2} \times \sqrt{\quad}} = \frac{2\sqrt{\quad}}{\quad} = \frac{\sqrt{6}}{3}$$

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

解答

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

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

$$(3) \frac{7}{2\sqrt{7}} = \frac{7 \times \sqrt{7}}{2\sqrt{7} \times \sqrt{7}} = \frac{7\sqrt{7}}{14} = \frac{\sqrt{7}}{2}$$

$$(4) \frac{2\sqrt{3}}{3\sqrt{2}} = \frac{2\sqrt{3} \times \sqrt{2}}{3\sqrt{2} \times \sqrt{2}} = \frac{2\sqrt{6}}{6} = \frac{\sqrt{6}}{3}$$

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