

() 組 () 番 名前 ()

次の数の分母を有理化しなさい。

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

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

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

$$(4) \frac{\sqrt{5}}{\sqrt{8}} = \frac{\sqrt{5}}{2\sqrt{2}} = \frac{\sqrt{5 \times 2}}{2\sqrt{2 \times 2}} = \frac{\sqrt{10}}{4}$$

$$(5) \frac{9}{\sqrt{18}} = \frac{9 \times \sqrt{18}}{\sqrt{18 \times 18}} = \frac{9\sqrt{18}}{18} = \frac{\sqrt{18}}{2} = \frac{3\sqrt{2}}{2}$$

$$(6) \frac{3}{\sqrt{27}} = \frac{3}{3\sqrt{3}} = \frac{1}{\sqrt{3}} = \frac{1 \times \sqrt{3}}{\sqrt{3 \times 3}} = \frac{\sqrt{3}}{3}$$

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

$$(8) \frac{2\sqrt{3}}{\sqrt{2}} = \frac{2\sqrt{3 \times 2}}{\sqrt{2 \times 2}} = \frac{2\sqrt{6}}{2} = \sqrt{6}$$