平方根　有理化１

2　　　名前 [　　　　　　　　　　　] ／　点

1.　次の空欄にあてはまる数値を答えなさい。

(1) $\dfrac{2}{\sqrt{7}} = \dfrac{2 \times \sqrt{}}{\sqrt{7} \times \sqrt{}} = \dfrac{2\sqrt{}}{}$

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

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

(4) $\dfrac{2\sqrt{2}}{3\sqrt{5}} = \dfrac{2\sqrt{2} \times \sqrt{}}{3\sqrt{5} \times \sqrt{5}} = \dfrac{2\sqrt{}}{}$

(5) $\dfrac{3}{\sqrt{12}} = \dfrac{3}{2\sqrt{}} = \dfrac{3 \times \sqrt{}}{2\sqrt{} \times \sqrt{}} = \dfrac{3\sqrt{}}{}$

$\qquad\qquad\qquad = \dfrac{\sqrt{3}}{2}$

解答

(1) $\dfrac{2}{\sqrt{7}} = \dfrac{2 \times \sqrt{7}}{\sqrt{7} \times \sqrt{7}} = \dfrac{2\sqrt{7}}{7}$

(2) $\dfrac{\sqrt{3}}{\sqrt{5}} = \dfrac{\sqrt{3} \times \sqrt{5}}{\sqrt{5} \times \sqrt{5}} = \dfrac{\sqrt{15}}{5}$

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

(4) $\dfrac{2\sqrt{2}}{3\sqrt{5}} = \dfrac{2\sqrt{2} \times \sqrt{5}}{3\sqrt{5} \times \sqrt{5}} = \dfrac{2\sqrt{10}}{15}$

(5) $\dfrac{3}{\sqrt{12}} = \dfrac{3}{2\sqrt{3}} = \dfrac{3 \times \sqrt{3}}{2\sqrt{3} \times \sqrt{3}} = \dfrac{3\sqrt{3}}{6}$

$\qquad\qquad\qquad\qquad\qquad\qquad\quad = \dfrac{\sqrt{3}}{2}$