

분모의 유리화 (Rationalization of Denominator)

Rationalization of Denominator

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$$\frac{\sqrt{a}}{\sqrt{b}}$$

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$$\frac{\sqrt{a}}{\sqrt{b}} = \frac{\sqrt{a}\sqrt{b}}{\sqrt{b}\sqrt{b}}$$

Rationalization of Denominator

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$$\frac{\sqrt{a}}{\sqrt{b}} = \frac{\sqrt{a}\sqrt{b}}{\sqrt{b}\sqrt{b}} = \frac{\sqrt{a}\sqrt{b}}{b}$$

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$$\begin{aligned}\frac{\sqrt{a}}{\sqrt{b}} &= \frac{\sqrt{a}\sqrt{b}}{\sqrt{b}\sqrt{b}} = \frac{\sqrt{a}\sqrt{b}}{b} \\ &= \frac{\sqrt{ab}}{b}\end{aligned}$$

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$$\frac{\sqrt{a}}{\sqrt{b}} = \frac{\sqrt{a}\sqrt{b}}{\sqrt{b}\sqrt{b}} = \frac{\sqrt{a}\sqrt{b}}{b}$$

$$= \frac{\sqrt{ab}}{b}$$

$$\therefore \frac{\sqrt{a}}{\sqrt{b}} = \frac{\sqrt{ab}}{b} \quad (a > 0, b > 0)$$

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$$= \frac{\sqrt{ab}}{b}$$

$$\therefore \frac{\sqrt{a}}{\sqrt{b}} = \frac{\sqrt{ab}}{b} \quad (a > 0, b > 0)$$

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END