

$$\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n} \text{ ( } n \text{ are natural numbers.)}$$

$n$  이 자연수일 때,  $\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}$

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$$\left(\frac{a}{b}\right)^n = \underbrace{\frac{a}{b} \times \cdots \times \frac{a}{b}}_n$$

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$$\left(\frac{a}{b}\right)^n = \underbrace{\frac{a}{b} \times \cdots \times \frac{a}{b}}_n$$

$$= \frac{\overbrace{a \times \cdots \times a}^n}{\underbrace{b \times \cdots \times b}_n}$$

$$\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n} \text{ ( } n \text{ are natural numbers.)}$$

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$$\begin{aligned}\left(\frac{a}{b}\right)^n &= \underbrace{\frac{a}{b} \times \cdots \times \frac{a}{b}}_n \\ &= \frac{\overbrace{a \times \cdots \times a}^n}{\underbrace{b \times \cdots \times b}_n} = \frac{a^n}{b^n}\end{aligned}$$

$$\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n} \text{ ( } n \text{ are natural numbers.)}$$

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$$= \frac{\overbrace{a \times \cdots \times a}^n}{\underbrace{b \times \cdots \times b}_n} = \frac{a^n}{b^n}$$

∴

$$\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n} \text{ ( } n \text{ are natural numbers.)}$$

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$$= \frac{\overbrace{a \times \cdots \times a}^n}{\underbrace{b \times \cdots \times b}_n} = \frac{a^n}{b^n}$$

$$\therefore \left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}$$



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$$\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n} \text{ ( } n \text{ are natural numbers.)}$$

▶ Home

END