n 이 자연수일 때, $(ab)^n = a^n b^n$

($(ab)^n = a^n b^n$ (n is a natural number.))

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Start

Start

$$(ab)^n$$

Start

$$(ab)^n = \underbrace{ab \times \cdots \times ab}_{n}$$

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Start

$$
\begin{aligned}
(ab)^n &= \underbrace{ab \times \cdots \times ab}_{n} \\
&= \underbrace{(a \times b) \times \cdots \times (a \times b)}_{n}
\end{aligned}
$$

Start

$$(ab)^n = \underbrace{ab \times \cdots \times ab}_{n}$$

$$= \underbrace{(a \times b) \times \cdots \times (a \times b)}_{n}$$

$$= (\underbrace{a \times \cdots \times a}_{n}) \times (\underbrace{b \times \cdots \times b}_{n})$$

Start

$$
\begin{aligned}
(ab)^n &= \underbrace{ab \times \cdots \times ab}_{n} \\
&= \underbrace{(a \times b) \times \cdots \times (a \times b)}_{n} \\
&= (\underbrace{a \times \cdots \times a}_{n}) \times (\underbrace{b \times \cdots \times b}_{n}) \\
&= a^n
\end{aligned}
$$

Start

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$(ab)^n = a^n b^n$ (n is a natural number.)

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\end{aligned}
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$(ab)^n = a^n b^n$ (n is a natural number.)

▸ Start

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&= a^n \times b^n = a^n b^n
\end{aligned}
$$

Start

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$\therefore$

Start

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\end{aligned}
$$

$$\therefore (ab)^n = a^n b^n$$

Home

END