n 이 자연수일 때, $(ab)^n = a^n b^n$
(($ab)^n = a^n b^n$ (n are natural numbers.))

$(ab)^n = a^n b^n$ (n are natural numbers.)

Start

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$$(ab)^n$$

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

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

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

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

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&= a^n \times b^n = a^n b^n
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$\therefore$

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$$

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

$(ab)^n = a^n b^n$ (n are natural numbers.)

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\end{aligned}
$$

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

$(ab)^n = a^n b^n$ (n are natural numbers.)

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

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

Home

END