

MTHSC 3190 SECTION 2.8

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EXAMPLE

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$$(n)_n = n \cdot (n - 1) \cdot (n - 2) \cdots 2 \cdot 1.$$

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EXAMPLE

Compute $3!$, $4!$ and $5!$.

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$$\prod_{i=1}^n a_i = a_1 \cdot a_2 \cdot \dots \cdot a_n.$$

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EXAMPLE

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$$\textcircled{1} \quad \prod_{k=1}^3 k =$$

$$\textcircled{2} \quad \prod_{k=1}^3 3 =$$

$$\textcircled{3} \quad \prod_{k=1}^3 (2k + 1) =$$

$$\textcircled{4} \quad \prod_{k=1}^n k =$$

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EXAMPLE

Compute $\frac{103!}{100!} =$