

Michigan Tech Styled Beamer Themes

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Sample Document Preparation
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Beamer Theme: Houghton

- ▶ professional looking fonts



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- ▶ approved colors for web and publication by Michigan Tech



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- ▶ simple, unobtrusive navigational information



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- ▶ **nice bullets**



Let's Prove Something

Theorem (Sum of Squares)

For $n \geq 0$,

$$\sum_{i=1}^n i = \frac{n(n+1)}{2}.$$



Let's Prove Something

Proof.

Basis: For $n = 0$,

$$\sum_{i=1}^n i = 0 = \frac{n(n+1)}{2}$$

Recurrence: Assume the result holds for n . Then for $n + 1$,

$$\sum_{i=1}^{n+1} i = (n+1) + \sum_{i=1}^n i = (n+1) + \frac{n(n+1)}{2} = \frac{(n+1)(n+2)}{2}.$$



Some Definitions

Definition (Big- $\mathcal{O}$)

A function $f(n)$ is asymptotically bounded below by function $g(n)$, i.e., $f \in \mathcal{O}(g)$, if for some n_0 and $c > 0$, $f(n) \geq c \cdot g(n)$ for all $n \geq n_0$.

- ▶ We say that f is in Big- $\mathcal{O}$ of g , $f = \text{Big-}\mathcal{O}(g)$, or more rarely $f \in \text{Big-}\mathcal{O}(g)$; although I would argue that the last option is the most correct.



Thank You!

