

Slide 1



Slide 2



First Principle of Mathematical Induction — Examples

• Example: Show that for $n \ge 1$,

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

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$$\sum_{i=1}^{n} i^2 = \frac{n(n+1)(2n+1)}{6}$$





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