

# Mathematical Induction

Week 8, 2021

## Mathematical Induction

Mathematical Induction is a method of proving statements about natural numbers.

It consists of two parts: a base case and an inductive step.

The base case is the statement for  $n = 1$ .

The inductive step is the statement for  $n = k + 1$ .

Example:

Prove that the sum of the first  $n$  natural numbers is  $\frac{n(n+1)}{2}$ .

Base case:  $n = 1$ .

Inductive step:

Assume the statement is true for  $n = k$ .

Prove the statement is true for  $n = k + 1$ .

Mathematical Induction is a powerful tool.

It can be used to prove many statements.

Example:

Prove that  $1 + 2 + \dots + n = \frac{n(n+1)}{2}$ .

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Prove that

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**Centre national de la recherche  
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