





Mathematical InductionSuppose we wish to prove that:
For all $n \ge n_0$, some predicate P(n) is true.We can do this by proving two things:
1. P(n_0) - this is called the "base case" or "basis."
2. If P(k), then P(k+1) - this is called the
"induction step" or "inductive case"
Note: We prove 2. by assuming P(k) is true.
Putting these together, we show that P(n) is true.
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