

# Proving a Summation Formula by Mathematical Induction

**Example:** Show that:  $\sum_{i=1}^n = \frac{n(n+1)}{2}$

Note: Once we have this conjecture, mathematical induction can be used to prove it correct.

**Solution:**

- BASIS STEP:  $P(1)$  is true since  $1(1+1)/2 = 1$ .
- INDUCTIVE STEP: Assume true for  $P(k)$ .

The inductive hypothesis is  $\sum_{i=1}^k = \frac{k(k+1)}{2}$

Under this assumption,

$$\begin{aligned} 1 + 2 + \dots + k + (k+1) &= \frac{k(k+1)}{2} + (k+1) \\ &= \frac{k(k+1) + 2(k+1)}{2} \\ &= \frac{(k+1)(k+2)}{2} \end{aligned}$$



# Prove By Mathematical Induction Zimsec

**Reg Allenby**



## Prove By Mathematical Induction Zimsec:

The Method of Mathematical Induction Il'iā Samuilovich Sominskiĭ, 1963      *Introduction to Proofs in Mathematics* James Franklin, Albert Daoud, 1988      **Mathematical Induction** Francis C. Romano, 1968      Science Of Learning Mathematical Proofs, The: An Introductory Course Elana Reiser, 2020-11-25 College students struggle with the switch from thinking of mathematics as a calculation based subject to a problem solving based subject This book describes how the introduction to proofs course can be taught in a way that gently introduces students to this new way of thinking This introduction utilizes recent research in neuroscience regarding how the brain learns best Rather than jumping right into proofs students are first taught how to change their mindset about learning how to persevere through difficult problems how to work successfully in a group and how to reflect on their learning With these tools in place students then learn logic and problem solving as a further foundation Next various proof techniques such as direct proofs proof by contraposition proof by contradiction and mathematical induction are introduced These proof techniques are introduced using the context of number theory The last chapter uses Calculus as a way for students to apply the proof techniques they have learned      **Book of Proof** Richard H. Hammack, 2009 This book is an introduction to the language and standard proof methods of mathematics It is a bridge from the computational courses such as calculus or differential equations that students typically encounter in their first year of college to a more abstract outlook It lays a foundation for more theoretical courses such as topology analysis and abstract algebra Although it may be more meaningful to the student who has had some calculus there is really no prerequisite other than a measure of mathematical maturity Topics include sets logic counting methods of conditional and non conditional proof disproof induction relations functions and infinite cardinality      **Mathematical Proofs** Gary Chartrand, Albert D. Polimeni, Ping Zhang, 2012-10-12 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book Mathematical Proofs A Transition to Advanced Mathematics Third Edition prepares students for the more abstract mathematics courses that follow calculus Appropriate for self study or for use in the classroom this text introduces students to proof techniques analyzing proofs and writing proofs of their own Written in a clear conversational style this book provides a solid introduction to such topics as relations functions and cardinalities of sets as well as the theoretical aspects of fields such as number theory abstract algebra and group theory It is also a great reference text that students can look back to when writing or reading proofs in their more advanced courses      *Logic, Sets and the Techniques of Mathematical Proofs* Brahima Mbodje Ph. D., 2011-06 As its title indicates this book is about logic sets and mathematical proofs It is a careful patient and rigorous introduction for readers with very limited mathematical maturity It teaches the reader not only how to read a mathematical proof but also how to write one To achieve this we carefully lay out all the various proof methods encountered in mathematical discourse give their logical justifications and apply them to the study of topics such as real numbers relations functions sequences fine sets

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**The Nuts and Bolts of Proofs** Antonella Cupillari, 2001 This book leads readers through a progressive explanation of what mathematical proofs are why they are important and how they work along with a presentation of basic techniques used to construct proofs The Second Edition presents more examples more exercises a more complete treatment of mathematical induction and set theory and it incorporates suggestions from students and colleagues Since the mathematical concepts used are relatively elementary the book can be used as a supplement in any post calculus course This title has been successfully class tested for years There is an index for easier reference a more extensive list of definitions and concepts and an updated bibliography An extensive collection of exercises with complete answers are provided enabling students to practice on their own Additionally there is a set of problems without solutions to make it easier for instructors to prepare homework assignments Successfully class tested over a number of years Index for easy reference Extensive list of definitions and concepts Updated bibliography

*Mathematical Induction* Ms Jayapada M.Sc(math), 2017-12-15 Mathematical Induction is an excellent tool to prove the algebraic theories It is very important chapter for students This book has nearly 53 worked out examples which are very long but simple

**Handbook of Mathematical Induction** David S. Gunderson, 2010-09-14 Handbook of Mathematical Induction Theory and Applications shows how to find and write proofs via mathematical induction This comprehensive book covers the theory the structure of the written proof all standard exercises and hundreds of application examples from nearly every area of mathematics In the first part of the book the author discusses different inductive techniques including well ordered sets basic mathematical induction strong induction double induction infinite descent downward induction and several variants He then introduces ordinals and cardinals transfinite induction the axiom of choice Zorn's lemma empirical induction and fallacies and induction He also explains how to write inductive proofs The next part contains more than 750 exercises that highlight the levels of difficulty of an inductive proof the variety of inductive techniques available and the scope of results provable by mathematical induction Each self contained chapter in this section includes the necessary definitions theory and notation and covers a range of theorems and problems from fundamental to very specialized The final part presents either solutions or hints to the exercises Slightly longer than what is found in most texts these solutions provide complete details for every step of the problem solving process

**How to Prove It** Daniel J. Velleman, 1994-11-25 Many students have trouble the first time they take a mathematics course in which proofs play a significant role This book will prepare students for such courses by teaching them techniques for writing and reading proofs

**Mathematical Induction** M. Saiprasad, 2017-11-08 This book

explains you about mathematical induction by means of cluster of worked out examples Mathematical induction is a mathematical proof technique used to prove a given statement about any well ordered set Most commonly it is used to establish statements for the set of all natural numbers Mathematical induction is a form of direct proof usually done in two steps When trying to prove a given statement for a set of natural numbers the first step known as the base case is to prove the given statement for the first natural number The second step known as the inductive step is to prove that if the statement is assumed to be true for any one natural number then it must be true for the next natural number as well Having proved these two steps the rule of inference establishes the statement to be true for all natural numbers In common terminology using the stated approach is referred to as using the Principle of mathematical induction

### **Understanding Mathematical**

**Proof** John Taylor, Rowan Garnier, 2016-04-19 The notion of proof is central to mathematics yet it is one of the most difficult aspects of the subject to teach and master In particular undergraduate mathematics students often experience difficulties in understanding and constructing proofs Understanding Mathematical Proof describes the nature of mathematical proof explores the various techn

**Numbers and Proofs** Reg Allenby, 1997-09-26 Numbers and Proofs presents a gentle introduction to the notion of proof to give the reader an understanding of how to decipher others proofs as well as construct their own Useful methods of proof are illustrated in the context of studying problems concerning mainly numbers real rational complex and integers An indispensable guide to all students of mathematics Each proof is preceded by a discussion which is intended to show the reader the kind of thoughts they might have before any attempt proof is made Established proofs which the student is in a better position to follow then follow Presented in the author's entertaining and informal style and written to reflect the changing profile of students entering universities this book will prove essential reading for all seeking an introduction to the notion of proof as well as giving a definitive guide to the more common forms Stressing the importance of backing up truths found through experimentation with logically sound and watertight arguments it provides an ideal bridge to more complex undergraduate maths

*An Introduction to Proofs with Set Theory* Daniel Ashlock, Colin Lee, 2020-06-24 This text is intended as an introduction to mathematical proofs for students It is distilled from the lecture notes for a course focused on set theory subject matter as a means of teaching proofs Chapter 1 contains an introduction and provides a brief summary of some background material students may be unfamiliar with Chapters 2 and 3 introduce the basics of logic for students not yet familiar with these topics Included is material on Boolean logic propositions and predicates logical operations truth tables tautologies and contradictions rules of inference and logical arguments Chapter 4 introduces mathematical proofs including proof conventions direct proofs proof by contradiction and proof by contraposition Chapter 5 introduces the basics of naive set theory including Venn diagrams and operations on sets Chapter 6 introduces mathematical induction and recurrence relations Chapter 7 introduces set theoretic functions and covers injective surjective and bijective functions as well as permutations Chapter 8 covers the fundamental properties of the integers including primes

unique factorization and Euclid's algorithm Chapter 9 is an introduction to combinatorics topics included are combinatorial proofs binomial and multinomial coefficients the Inclusion Exclusion principle and counting the number of surjective functions between finite sets Chapter 10 introduces relations and covers equivalence relations and partial orders Chapter 11 covers number bases number systems and operations Chapter 12 covers cardinality including basic results on countable and uncountable infinities and introduces cardinal numbers Chapter 13 expands on partial orders and introduces ordinal numbers Chapter 14 examines the paradoxes of naive set theory and introduces and discusses axiomatic set theory This chapter also includes Cantor's Paradox Russell's Paradox a discussion of axiomatic theories an exposition on Zermelo Fraenkel Set Theory with the Axiom of Choice and a brief explanation of Gödel's Incompleteness Theorems

*The Nuts and Bolts of Proofs* Antonella Cupillari, 2011-11-25 The Nuts and Bolts of Proofs An Introduction to Mathematical Proofs provides basic logic of mathematical proofs and shows how mathematical proofs work It offers techniques for both reading and writing proofs The second chapter of the book discusses the techniques in proving if then statements by contrapositive and proofing by contradiction It also includes the negation statement and or It examines various theorems such as the if and only if or equivalence theorems the existence theorems and the uniqueness theorems In addition use of counter examples mathematical induction composite statements including multiple hypothesis and multiple conclusions and equality of numbers are covered in this chapter The book also provides mathematical topics for practicing proof techniques Included here are the Cartesian products indexed families functions and relations The last chapter of the book provides review exercises on various topics Undergraduate students in engineering and physical science will find this book invaluable Jumps right in with the needed vocabulary gets students thinking like mathematicians from the beginning Offers a large variety of examples and problems with solutions for students to work through on their own Includes a collection of exercises without solutions to help instructors prepare assignments Contains an extensive list of basic mathematical definitions and concepts needed in abstract mathematics

**Introduction to Mathematical Proofs** Charles Roberts, 2014-12-17 Introduction to Mathematical Proofs helps students develop the necessary skills to write clear correct and concise proofs Unlike similar textbooks this one begins with logic since it is the underlying language of mathematics and the basis of reasoned arguments The text then discusses deductive mathematical systems and the systems of natural numbers

**A Logical Introduction to Proof** Daniel Cunningham, 2012-09-19 The book is intended for students who want to learn how to prove theorems and be better prepared for the rigors required in more advanced mathematics One of the key components in this textbook is the development of a methodology to lay bare the structure underpinning the construction of a proof much as diagramming a sentence lays bare its grammatical structure Diagramming a proof is a way of presenting the relationships between the various parts of a proof A proof diagram provides a tool for showing students how to write correct mathematical proofs

**Mathematical Proof** Arthur Edward Hallerberg, 1974 **Introduction to Proofs and Proof Strategies** Shay

Fuchs, 2023-06-22 Emphasizing the creative nature of mathematics this conversational textbook guides students through the process of discovering a proof The material revolves around possible strategies to approaching a problem without classifying types of proofs or providing proof templates Instead it helps students develop the thinking skills needed to tackle mathematics when there is no clear algorithm or recipe to follow Beginning by discussing familiar and fundamental topics from a more theoretical perspective the book moves on to inequalities induction relations cardinality and elementary number theory The final supplementary chapters allow students to apply these strategies to the topics they will learn in future courses With its focus on doing mathematics through 200 worked examples over 370 problems illustrations discussions and minimal prerequisites this course will be indispensable to first and second year students in mathematics statistics and computer science Instructor resources include solutions to select problems

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