
Chapter 1 The Foundations Logic And Proof Sets And

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Chapter 1 The Foundations: Logic and Proofs

1 The Foundations: Logic and Proofs
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that is a number between 0 and 1, inclusive. A proposition with a truth value of 0 is false and one with a truth value of 1 is true. Truth values that are between 0 and 1 indicate varying degrees of truth. The Foundations: Logic and Proofs | Discrete Math... Chapter 1 The Foundations: Logic and Proofs The word "discrete" means separate or distinct. Mathematicians view it as the opposite of "continuous." Whereas, in calculus, it is continuous functions of a real variable that are important, such functions are of relatively little interest in discrete mathematics. Chapter 1 The Foundations: Logic and Proofs 1.1. Logic 1 Chapter 1. The Foundations: Logic, Sets, and Functions Section 1.1. Logic Note. In this section we introduce elementary symbolic logic. We define propositions and put truth values on propositions. Definition. A proposition is a statement that is either true or false, but not both. Chapter 1. The Foundations: Logic, Sets, and Functions Chapter 1: The Foundations: Logic and Proofs includes 77 full step-by-step solutions. This expansive textbook survival guide covers the following chapters and their solutions. Since 77

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$\wedge (y \geq 0)) \rightarrow (x + y \geq 0)$... The Foundations: Logic and Proofs | Discrete Math... Case 1: $a \geq b \geq c$ ($a \geq b$) $= a$, $a \geq c = a$, $b \geq c = b$ Hence $(a \geq b) \wedge (b \geq c) = a \geq c$ Therefore the equality holds for the first case. A complete proof requires that the equality be shown to hold for all 6 cases. But the proofs of the remaining cases are similar. Try them. The Foundations: Logic and Proofs [Even though these examples seem silly, both trivial and vacuous proofs are often used in mathematical induction, as we will see in Chapter 5] Even and Odd Integers Definition : The integer n is even if there exists an integer k such that $n = 2k$, and n is odd if there exists an integer k , such that $n = 2k + 1$. The Foundations: Logic and Proofs Translating from English to Logic. Example 1: Translate the following sentence into predicate logic: "Every student in this class has taken a course in Java." Solution: First decide on the domain U . Solution . 1: If U is all students in this class, define a propositional function $J(x)$ denoting "x has taken a course in Java" and ... The Foundations: Logic and Proofs 2 1 / The Foundations: Logic and Proofs Propositions Our discussion begins with an

introduction to the basic building blocks of logic—propositions. A proposition is a declarative sentence (that is, a sentence that declares a fact) that is either true or false, but not both. EXAMPLE 1 All the following declarative sentences are propositions. 1.1 The Foundations: Logic and Proofs The Foundations: Logic and Proofs 1.4 Logical Equivalences 1.5 Laws of Propositional Logic 1 Propositional Equivalences CS130 An important step used in a mathematical argument is the replacement of a statement with another statement with the same truth value. Chapter 1. The Foundations: Logic and Proofs 1.4 Logical ... Chapter 1. The Foundations: Logic and Proofs 1.13 Rules of inference with quantifiers Logic and bit operations Specification consistency. 1.13 Rules of inference with quantifiers. $\forall x P(x)$ $P(c)$ where c is a particular member of the domain. universal instantiation $P(c)$ for any arbitrary c . $\forall x P(x)$ universal generalization. Chapter 1. The Foundations: Logic and Proofs 1.13 Rules of ... Chapter 1 — Computer Abstractions and Technology. Computer Evolution. The first completely electronic computer, ABC solved systems of linear equations.

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[Even though these examples seem silly, both trivial and vacuous proofs are often used in mathematical induction, as we will see in Chapter 5)] Even and Odd Integers
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1 The Foundations: Logic and Proofs

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Chapter 1 The Foundations Logic

Section 1.1 Propositional Logic 1 CHAPTER 1 The Foundations: Logic and Proofs SECTION 1.1 Propositional Logic 2.

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The Foundations: Logic and Proofs

The Foundations: Logic and Proofs Chapter 1 1. Propositional Logic Section 1.1 2. Propositions A proposition is a declarative sentence that is either true or false. Examples of propositions: a) Dhaka is the capital of Bangladesh.

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Logic is the basis of all mathematical reasoning, and of all automated reasoning.

It has practical applications to the design of computing machines, to the specification of systems, to artificial intelligence, to computer programming, to programming languages, and to other areas of computer science, as well as to many other fields of study.

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Translating from English to Logic. Example 1: Translate the following sentence into predicate logic: "Every student in this class has taken a course in Java." Solution: First decide on the domain U . Solution .

1: If U is all students in this class, define a propositional function $J(x)$ denoting "x has taken a course in Java" and ...

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Case 1: $a \geq b \geq c$ $(a @ b) = a$, $a @ c = a$, b

$@ c = b$ Hence $(a @ b) @ c = a = a @ (b @ c)$ Therefore the equality holds for the first case. A complete proof requires that the equality be shown to hold for all 6 cases. But the proofs of the remaining cases are similar. Try them.

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2 1 / The Foundations: Logic and Proofs Propositions Our discussion begins with an introduction to the basic building blocks of logic—propositions. A proposition is a declarative sentence (that is, a sentence that declares a fact) that is either true or false, but not both. EXAMPLE 1 All the following declarative sentences are propositions. 1.

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Section 1.1 Propositional Logic 1 CHAPTER

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SECTION 1.1 Propositional Logic 2.

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1.1. Logic 1 Chapter 1. The Foundations: elementary symbolic logic. We define propositions. Definition. A proposition is a Logic, Sets, and Functions Section 1.1. proposi-tions and put truth values on statement that is either true or false, but Logic Note. In this section we introduce not both.

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