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Chapter 1 The Foundations Logic

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Quantifiers. 00:57. Problem 1 Translate these statements into English, where the domain for each variable consists of all real numbers. a) $\forall x \exists y (x < y)$ b) $\forall x \forall y ((x \geq 0) \wedge (y \geq 0)) \rightarrow (x + y \geq 0)$...

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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

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Example 1: Using the rules of inference,

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construct a valid argument to show that. "John Smith has two legs". is a consequence of the premises: "Every person has two legs." "John Smith is a person.". Solution: Let $P(x)$ denote "x is a person" and $L(x)$ " x has two legs" and let John Smith be a member of the domain.

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Section CHAPTER 1 The

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Socrates is mortal. Socrates is human. ...

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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

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hold for all 6 cases. But the proofs of the remaining cases are similar. Try them.

The Foundations: Logic and Proofs

1 Example 1: Using the rules of inference, construct a valid argument to show that \wedge John Smith has two legs is a consequence of the premises: Every man has two legs. John Smith is a man. _

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Solution: Let $M(x)$ denote x is a man and $L(x)$ x has two legs and let John Smith be a member of the domain. Valid Argument: 1. Premise 2. L UI from 1 3.

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[Even though these examples seem silly, both trivial and vacuous proofs are often used in mathematical induction, as

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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 $n = 2k + 1$.

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Logic Circuits (Studied in depth in Chapter 12) Electronic circuits; each

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input/output signal can be viewed as a 0 or 1. 0 represents . False. 1 represents . True. Complicated circuits are constructed from three basic circuits called gates. The inverter (NOT gate) takes an input bit and produces the negation of that bit. The . OR gate

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Sets And

The Foundations: Logic and Proofs 1.4
Logical Equivalences 1.5 Laws of
Propositional Logic 1 Propositional
Equivalences CSI30 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

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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. $\forall xP(x)$ $P(c)$ where c is a particular member of the domain. universal instantiation $P(c)$ for any arbitrary c . $\forall xP(x)$ universal

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generalization.

Chapter 1. The Foundations: Logic and Proofs 1.13 Rules of ...

6Chapter 1 The Foundations: Logic and Proofs. honest answer to her question is “yes,” so he will lie and answer “no.”. Thus everybody will answer “no” to the question, and the explorer will have no

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way to determine which type of cannibal she is speaking to.

CHAPTER 1 The Foundations: Logic and Proofs

Logic is the basis of all mathematical reasoning, and of all automated reasoning. It has practical applications to the design of computing machines, to

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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.

CHAPTER 1 The Foundations: Logic and Proofs

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Proofs Total Number of Days: 18-days

Grade/Course: 12/Discrete Math

ESSENTIAL QUESTIONS ENDURING

UNDERSTANDINGS What are the symbols used in logic? How can the truth value of a proposition or set of propositions be determined?

Chapter 1 The Foundations: Logic

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1 CHAPTER The Foundations: Logic and Proofs 1.1 Propositional Logic 1.2 Applications of Propositional Logic 1.3 Propositional Equivalences 1.4 Predicates and Quantifiers 1.5 Nested

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Quantifiers 1.6 Rules of Inference 1.7
Introduction to Proofs 1.8 Proof Methods
and Strategy T he rules of logic specify
the meaning of mathematical
statements ...

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