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Chapter 1 The Foundations Logic

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 $n = 2k + 1$. (Note that every integer is either even or odd, and no integer is both even and odd.).

Chapter 1 - The Foundations: Logic and Proofs Flashcards

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Chapter 1 The Foundations: Logic and Proofs The word "discrete" means separate or distinct. Mathematicians view it as the

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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

Section 1.1 Propositional Logic 1 CHAPTER 1 The Foundations: Logic and Proofs SECTION 1.1 Propositional Logic 2. Propositions must have clearly defined truth values, so a proposition must be a declarative sentence with no free variables. a) This is not a proposition; it's a command. b) This is not a proposition; it's a question.

CHAPTER 1 The Foundations: Logic and Proofs

propositional logic, connectives. Construct truth tables. Illustrate the importance of logic with applications. The study of logic through logic puzzles N.Q.2 Text pgs 12 - 16 Basic 1-28(even) Average: 1-38(even) Advance 1-38(even) 42,43,44 Text

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Chapter 1 The Foundations: Logic and Proofs

CHAPTER 1 The Foundations: Logic and Proofs SECTION 1.1 Propositional Logic

CHAPTER 1 The Foundations: Logic and Proofs SECTION 1.1 ...

1. Choose propositional variables: p: "It is sunny this afternoon." r: "We will go swimming." t : "We will be home by sunset." q: "It is colder than yesterday." s : "We will take a canoe trip." 2. Translation into propositional logic: Continued on next slide

The Foundations: Logic and Proofs

Section 1.1 Prop ositional Logic 1 CHAPTER 1 The F oundations: Logic and Pr oofs SECTION 1.1 Pr opositional Logic 2. Prop

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ositions must have clearly defined truth values, so a proposition must be a declarative sentence with no free variables.

a) This is not a proposition; it's a command. b) This is not a proposition; it's a question.

CHAPTER 1 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. $_$ Solution: Let $M(x)$ denote \wedge x is a man and $L(x)$ 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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The Argument. \square We can express the premises (above the line) and the conclusion (below the line) in predicate logic as an argument: \square We will see shortly that this is a valid argument.

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Valid Arguments. □ We will show how to construct valid arguments in two stages; first for propositional logic and then for predicate logic.

The Foundations: Logic and Proofs

+ 1 for an integer k . Squaring both sides of the equation, we get: $n^2 = (2k + 1)^2 = 4k^2 + 4k + 1 = 2(2k^2 + 2k) + 1 = 2r + 1$, where $r = 2k^2 + 2k$, an integer. We have proved that if n is an odd integer, then n^2 is an odd integer. (□ marks the end of the proof. Sometimes QED is used instead.)

The Foundations: Logic and Proofs

Propositional Logic Section 1.1 Propositions ● A proposition is a declarative sentence that is either true or false. ● Examples of propositions: a) The Moon is made of green cheese. b) Trenton is the capital of New Jersey. c) Toronto is the capital of Canada.

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Chapter 01 Part 1 - The Foundations Logic and Proofs ...

The Foundations: Logic and Proofs Chapter 1, Part I:

Propositional Logic With Question/Answer Animations Chapter Summary Propositional Logic The Language of Propositions Applications Logical Equivalences Predicate Logic The Language of Quantifiers Logical Equivalences Nested Quantifiers Proofs Rules of Inference Proof Methods Proof Strategy

Chapter1p1 - The Foundations Logic and Proofs Chapter 1

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Chapter 1: The Foundations: Logic and Proofs . 1.1 Propositional Logic. 1.2 Application of Propositional Logic. 1.3 Propositional Equivalences. ... Chapter 5 (and 1 again): Proofs and Induction . 1.7 Introduction to Proofs. 1.8 Proof Methods and Strategies. 5.1 Mathematical Induction . Test 2 .

Chapter 1: The Foundations: Logic and Proofs 1.1 ...

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

Section CHAPTER 1 The Foundations: Logic and Proofs ...

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[DM 2020] Chapter 1: The Foundations: Logic and Proofs, Part III

Problems and Comments on the Foundations : Logic and Proofs , Sets and Functions Chapter 1 and Chapter 2 Section 1.1, Problems 1,3,17,25 Comments . You should pay special attention to implication $p \rightarrow q$, read "If p then q ". The formula $p \rightarrow q$ is considered as false only if p is true and q is false. The conjunction of p and q

Problems and Comments on the Foundations Logic and

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This expansive textbook survival guide covers the following chapters and their solutions. Since 61 problems in chapter 1.2: The Foundations: Logic and Proofs have been answered, more than 10167 students have viewed full step-by-step solutions from this chapter. Chapter 1.2: The Foundations: Logic and Proofs includes 61 full step-by-step solutions.

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