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Chapter 1 The

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Fuzzy logic is used in artificial intelligence.

In fuzzy logic, a proposition has a truth value 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

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varying degrees of  
truth.

## Foundations

## Logic And Proof

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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

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Set And  
/continuous." The  
Whereas, in calculus,  
it is continuous  
functions of a real  
variable that are  
important, such  
functions are of  
relatively little  
interest in discrete  
mathematics.

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and Proofs 1 The

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

proposi-tions and put

truth values on

propositions.

Definition. A

proposition is a

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statement that is  
either true or false,  
but not both.

# Logic And Proof Sets And

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Sets, and Functions  
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and Proofs includes  
77 full step-by-step  
solutions. This  
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have been answered,  
more than 40337  
students have viewed  
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solutions from this  
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## Chapter 1 The

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Solutions for 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

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Chapter 1 The Foundations: Logic And Proof  
Sets And

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

Chapter 1 - The  
*Page 19/43*

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Foundations: Logic  
and Proofs Flashcards  
| Quizlet An

unexpected error has  
occurred We're really  
really sorry,  
something has gone  
wrong. We've been  
alerted about it and  
will fix it ASAP.

---

Chapter 1 - The  
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*Page 20/43*

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and Proofs Flashcards

Chapter 1 The

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Chapter 1 The

Logic And Proof

Foundations: Logic

and Proofs.

Educators. Section 5.

Nested Quantifiers.

00:57. Problem 1

Translate these

statements into

English, where the

domain for each

variable consists of all

real numbers. a)

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$\forall x \exists y (x < y)$   
 $\forall x \forall y ((x \geq 0) \wedge (y \geq 0)) \rightarrow (x + y \geq 0)$  ...

---

The Foundations:  
Logic and Proofs |  
Discrete Math...

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

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$a @ c = b$  Hence  $(a @ b)$

$a @ c = a = a @ (b @ c)$

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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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



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Chapter 4 The Foundations  
Logic And Proof  
Sets And  
integer  $k$  such that  $n$   
 $= 2^k$ , and  $n$  is odd if  
there exists an  
integer  $k$ , such that  $n$   
 $= 2^{k+1}$ .

---

The Foundations:  
Logic and Proofs  
Translating from  
English to Logic.  
Example 1: Translate  
the following  
sentence into

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Chapter 1: The  
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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21 / The

Foundations: Logic  
and Proofs

Propositions Our  
discussion begins  
with an introduction  
to the basic building  
blocks of  
logic—propositions.

A proposition is a

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Chapter 1 The  
Foundations  
Logic And Proof  
Sets And  
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:  
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Chapter 1 The Foundations of 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

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Logical ...

Chapter 1. The  
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of inference with  
quantifiers Logic and  
bit operations  
Specification

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Chapter 1.13

Rules of inference  
with quantifiers.

$\exists x P(x) \wedge P(c)$  where  $c$  is  
a particular member  
of the domain.

universal

instantiation

$P(c)$  for any arbitrary  $c$ .

$\forall x P(x)$  universal

generalization.

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of ...

Chapter 1 —

Computer

Abstractions and  
Technology.

Computer Evolution.

The first completely  
electronic computer,  
ABC solved systems  
of linear equations.

ENIAC was the first all-  
electronic, general-



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purpose digital The  
computer. Year: ...

Chapter 1: The  
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Section 1.1

Propositional Logic 1

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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  
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chap 1 - Section 1.1  
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CHAPTER 1 The ...

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Chapter 1 1.

Propositional Logic

Section 1.1 2.

Propositions A

proposition is a  
declarative sentence  
that is either true or

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false. Examples of  
propositions: a)  
Dhaka is the capital  
of Bangladesh.

## Sets And

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Chapter-1 (part  
1)\_Propositional  
Logic.pptx - The ...  
Logic is the basis of  
all mathematical  
reasoning, and of all  
automated  
reasoning. It has

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Chapter 1 The Foundations of Logic And Proof  
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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Valid Arguments and

Rules of Inference

Proof Methods Proof

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Valid Arguments

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Chapter 4 The  
Propositional Logic  
Using Rules of  
Inference to Build  
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The Foundations:  
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Logic Translate  
English statements.  
Use Boolean  
searches. Apply  
propositional logic to  
situations. Work with

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