## Mathematics for Computing Logic

DRAFT

## 1 Logic

• The NOT operator ¬ (also known as the negation operator)

## 1.1 Truth Tables

p	q	$p \wedge q$	$p \lor q$	$\neg p$	$\neg (p \land q)$
0	0	0	0	1	1
0	1	0	1	1	1
1	0	0	1	0	1
1	1	1	1	0	0

## Prepositional Logic

- A Set is a collection of distinct and defined elements.
- Sets are represented by using French braces {} with commas to separate the elements in a Set.