

# Notes for Introduction to Mathematical Thinking

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## 1 Week 1

Introduction to symbols:

$\wedge$  means a logical conjunction  
 $\vee$  means a logical disjunction  
 $\neg$  is negation

Truth Tables for these operators

Conjunction

$\phi$	$\psi$	$\phi \wedge \psi$
T	T	T
T	F	F
F	T	F
F	F	F

Disjunction

$\phi$	$\psi$	$\phi \vee \psi$
T	T	T
T	F	T
F	T	T
F	F	F

Negation

$\phi$	$\neg \phi$
T	F
F	T

## 2 Week 2