MyFirstDocument

stinkybug3

January 28, 2020

Contents

1 Introduction

lorem ipsum dolor sit amat. lorem ipsum dolor sit amat. lorem ipsum dolor sit amat. lorem ipsum dolor sit amat. lorem ipsum dolor sit amat.
Lorem ipsum dolor sit amet: $a + b = C$

$$a^2 + b^2 = c^2 \tag{1}$$

1.1 Logical notation

P	Q	$P \wedge Q$	$P \vee Q$	$\neg P$	$P \to Q$	$P \leftrightarrow Q$
$\top$	$\bot$					

Universal: $\forall x Px$
Exists: $\exists x Px$
Conjunction: $P \wedge Q$
Disjunction: $P \vee Q$

1.1.1 A deduction

$$
\begin{array}{lll}
(1) & P \wedge Q & \text{prem} \\
(2) & P & \wedge\text{Elim 1} \\
(3) & \quad R & \text{Supp/CP} \\
(4) & \quad S & \text{Magic!} \\
(5) & R \to S & \text{CP 3-4} \\
(6) & \quad \text{something} & \text{magic again} \\
(7) & P & \text{Bingo}
\end{array}
$$