

<u>Modus Ponens</u>		<u>Modus Tollens</u>	<u>Conjunction</u>	<u>Transitivity</u>
$p \rightarrow q$		$p \rightarrow q$	p	$p \rightarrow q$
p		$\sim q$	q	$q \rightarrow r$
$\therefore q$		$\therefore \sim p$	$\therefore p \wedge q$	$\therefore p \rightarrow r$
<u>Elimination</u>			<u>Generalization</u>	
$p \vee q$		$p \vee q$	p	q
$\sim q$		$\sim p$	$\therefore p \vee q$	$\therefore p \vee q$
$\therefore p$		$\therefore q$		
<u>Specialization</u>		<u>Contradiction rule</u>		<u>Proof by division into cases</u>
$p \wedge q$	$p \wedge q$	$\sim p \rightarrow c$		$p \vee q$
$\therefore p$	$\therefore q$	$\therefore p$		$p \rightarrow r$
				$q \rightarrow r$
				$\therefore r$