

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