Modus Ponens

$$P \rightarrow Q$$
$$\underline{P}$$
$$Q$$

Hypothetical Syllogism

$$P \rightarrow Q$$
$$\underline{Q \rightarrow R}$$
$$P \rightarrow R$$

Conjunction

$$P$$
$$\underline{Q}$$
$$P \wedge Q.$$

Modus Tollens

$$P \rightarrow Q$$
$$\underline{\neg Q}$$
$$\neg P$$

Disjunctive Syllogism.

$$P \vee Q$$
$$\underline{\neg P}$$
$$Q$$

Constructive Dilemma.

$$(P \rightarrow Q) \wedge (R \rightarrow S)$$
$$\underline{P \vee R}$$
$$Q \vee S.$$

Simplification

$$\underline{P \wedge Q}$$
$$P$$

Absorption

$$\underline{P \rightarrow Q}$$
$$P \rightarrow (P \vee Q)$$

Addition

$$\underline{P}$$
$$P \vee Q.$$