

LÓGICA I. DEDUCCIÓN NATURAL. TABLA DE REGLAS

REGLAS BÁSICAS

| | | | |
|---|---|--|--|
| $\mathbf{RI}_{\neg} \quad \begin{array}{l} \boxed{X} \\ Y \wedge \neg Y \\ \hline \neg X \end{array}$ | $\mathbf{RI}_{\rightarrow} \quad \begin{array}{l} \boxed{X} \\ Y \\ \hline X \rightarrow Y \end{array}$ | $\mathbf{RI}_{\wedge} \quad \begin{array}{l} X \quad X \\ Y \quad Y \\ \hline X \wedge Y \quad Y \wedge X \end{array}$ | $\mathbf{RE}_{\vee} \quad \begin{array}{l} X \vee Y \\ \boxed{X} \\ Z \\ \boxed{Y} \\ Z \\ \hline Z \end{array}$ |
| $\mathbf{RE}_{\neg} \quad \frac{\neg \neg X}{X}$ | $\mathbf{RE}_{\rightarrow} \quad \frac{X \rightarrow Y}{\frac{X}{Y}}$ | $\mathbf{RE}_{\wedge} \quad \frac{X \wedge Y}{X} \quad \frac{X \wedge Y}{Y}$ | |
| | | $\mathbf{RI}_{\vee} \quad \frac{X}{X \vee Y} \quad \frac{X}{Y \vee X}$ | |

REGLAS DERIVADAS

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|---|--|---|---|--|
| $\mathbf{ECQ} \quad \frac{X \quad \neg X}{Y}$ | $\mathbf{MT} \quad \frac{X \rightarrow Y \quad \neg Y}{\neg X}$ | $\mathbf{Interdef. } \rightarrow, \wedge \quad \frac{X \rightarrow Y}{\neg(X \wedge \neg Y)}$ | $\mathbf{Interdef. } \wedge, \rightarrow \quad \frac{X \wedge Y}{\neg(X \rightarrow \neg Y)}$ | $\mathbf{Interdef. } \vee, \rightarrow \quad \frac{X \vee Y}{\neg X \rightarrow Y}$ |
| $\mathbf{IA} \quad \frac{X \vee Y \quad \neg Y}{X}$ | $\mathbf{EN}_2 \quad \begin{array}{l} \boxed{\neg X} \\ Y \wedge \neg Y \\ \hline X \end{array}$ | $\mathbf{Interdef. } \rightarrow, \vee \quad \frac{X \rightarrow Y}{\neg X \vee Y}$ | $\mathbf{Interdef. } \wedge, \vee \quad \frac{X \wedge Y}{\neg(\neg X \vee \neg Y)}$ | $\mathbf{Interdef. } \vee, \wedge \quad \frac{X \vee Y}{\neg(\neg X \wedge \neg Y)}$ |