

Deducción Natural

Lógica Intuicionista

Reglas Básicas

$$\frac{}{\Gamma, \tau \vdash \tau} ax$$

$$\frac{\Gamma \vdash \perp}{\Gamma \vdash \tau} \perp_e$$

$$\frac{\Gamma \vdash \tau \quad \Gamma \vdash \sigma}{\Gamma \vdash \tau \wedge \sigma} \wedge_i$$

$$\frac{\Gamma, \tau \vdash \sigma}{\Gamma \vdash \tau \Rightarrow \sigma} \Rightarrow_i$$

$$\frac{\Gamma \vdash \tau \wedge \sigma}{\Gamma \vdash \tau} \wedge_{e1}$$

$$\frac{\Gamma \vdash \tau \wedge \sigma}{\Gamma \vdash \sigma} \wedge_{e2}$$

$$\frac{\Gamma \vdash \tau \Rightarrow \sigma \quad \Gamma \vdash \tau}{\Gamma \vdash \sigma} \Rightarrow_e$$

$$\frac{\Gamma \vdash \tau}{\Gamma \vdash \tau \vee \sigma} \vee_{i1}$$

$$\frac{\Gamma \vdash \sigma}{\Gamma \vdash \tau \vee \sigma} \vee_{i2}$$

$$\frac{\Gamma, \tau \vdash \perp}{\Gamma \vdash \neg \tau} \neg_i$$

$$\frac{\Gamma \vdash \tau \vee \sigma \quad \Gamma, \tau \vdash \rho \quad \Gamma, \sigma \vdash \rho}{\Gamma \vdash \rho} \vee_e$$

$$\frac{\Gamma \vdash \tau \quad \Gamma \vdash \neg \tau}{\Gamma \vdash \perp} \neg_e$$

Reglas Derivadas

$$\frac{\Gamma \vdash \tau}{\Gamma \vdash \neg \neg \tau} \neg \neg_i$$

$$\frac{\Gamma \vdash \tau \Rightarrow \sigma \quad \Gamma \vdash \neg \sigma}{\Gamma \vdash \neg \tau} MT$$

Lógica Clásica

Regla Básica

Reglas Derivadas

$$\frac{\Gamma \vdash \neg \neg \tau}{\Gamma \vdash \tau} \neg \neg_e$$

$$\frac{\Gamma, \neg \tau \vdash \perp}{\Gamma \vdash \tau} PBC$$

$$\frac{}{\Gamma \vdash \tau \vee \neg \tau} LEM$$