

## Regras de Inferência - Estilo de Gentzen

Note que  $\neg x \equiv x \rightarrow false$

$$\frac{x \quad y}{x \wedge y} (\wedge I)$$

$$\frac{x \wedge y}{x} (\wedge E_1)$$

$$\frac{x \wedge y}{y} (\wedge E_2)$$

$$\frac{x}{x \vee y} (\vee I_1)$$

$$\frac{y}{x \vee y} (\vee I_2)$$

$$\frac{x \vee y \quad [x] \vdash z \quad [y] \vdash z}{z} (\vee E)$$

$$\frac{[\neg x] \vdash false}{x} (RAA)$$

$$\frac{x}{x} (ID)$$

$$\frac{false}{x} (CTR)$$

$$\frac{x \rightarrow y \quad x}{y} (\rightarrow E)$$

$$\frac{[x] \vdash y}{x \rightarrow y} (\rightarrow I)$$