

$$\gamma \leq \psi \Leftrightarrow \gamma \wedge \bar{\psi} = o \Leftrightarrow \bar{\gamma} \vee \psi = e \Leftrightarrow \bar{\psi} \leq \bar{\gamma}$$

$$\gamma \leq \psi \Rightarrow \gamma \wedge \bar{\psi} = \underbrace{\gamma \wedge \psi}_{= o} \wedge \bar{\psi} = \gamma \wedge \underbrace{\psi \wedge \bar{\psi}}_{= o} = \gamma \wedge o = o$$

$$\gamma \wedge \bar{\psi} = o \Rightarrow \overline{\gamma \wedge \bar{\psi}} = \bar{\gamma} \vee \psi = \bar{o} = e$$

$$\gamma \wedge \bar{\psi} = o \Rightarrow \bar{\psi} = \bar{\psi} \wedge e = \bar{\psi} \wedge \underbrace{\gamma \vee \bar{\gamma}}_{= e} = \underbrace{\bar{\psi} \wedge \gamma}_{= o} \vee \underbrace{\bar{\psi} \wedge \bar{\gamma}}_{= \bar{\psi}} = o \vee \bar{\psi} = \bar{\psi} \wedge \bar{\gamma} \Rightarrow \bar{\psi} \leq \bar{\gamma}$$

$$\bar{\psi} \leq \bar{\gamma} \Rightarrow \gamma = \bar{\bar{\gamma}} \leq \bar{\bar{\psi}} = \psi$$

$$\begin{cases} \overline{\gamma \vee \psi} = \bar{\gamma} \wedge \bar{\psi} \\ \overline{\gamma \wedge \psi} = \bar{\gamma} \vee \bar{\psi} \end{cases}$$

$$\begin{cases} \gamma \vee \psi = \sup \gamma: \psi \\ \gamma \wedge \psi = \inf \gamma: \psi \end{cases}$$