

דוקציה טבעית - תחשיב פסוקים

$$\{A\} \cup \Gamma \Rightarrow A$$

$$\frac{\Gamma_1 \Rightarrow A \quad \Gamma_2 \Rightarrow B}{\Gamma_1 \cup \Gamma_2 \Rightarrow A \wedge B}$$

$$\frac{\Gamma \Rightarrow A \wedge B}{\Gamma \Rightarrow B}$$

$$\frac{\Gamma \Rightarrow A \wedge B}{\Gamma \Rightarrow A}$$

$$\frac{\Gamma \cup \{A\} \Rightarrow B}{\Gamma \Rightarrow A \rightarrow B}$$

$$\frac{\Gamma_1 \Rightarrow A \quad \Gamma_2 \Rightarrow A \rightarrow B}{\Gamma_1 \cup \Gamma_2 \Rightarrow B}$$

$$\frac{\Gamma \Rightarrow A}{\Gamma \Rightarrow A \vee B}$$

$$\frac{\Gamma \Rightarrow B}{\Gamma \Rightarrow A \vee B}$$

$$\frac{\Gamma_1 \Rightarrow A \vee B \quad \{A\} \cup \Gamma_2 \Rightarrow C \quad \{B\} \cup \Gamma_3 \Rightarrow C}{\Gamma_1 \cup \Gamma_2 \cup \Gamma_3 \Rightarrow C}$$

$$\frac{\{A\} \cup \Gamma_1 \Rightarrow B \quad \{A\} \cup \Gamma_2 \Rightarrow \neg B}{\Gamma_1 \cup \Gamma_2 \Rightarrow \neg A}$$

$$\frac{\Gamma \Rightarrow \neg \neg A}{\Gamma \Rightarrow A}$$

כללי שלילה חשובים נוספים:

$$\frac{\Gamma_1 \Rightarrow A \quad \Gamma_2 \Rightarrow \neg A}{\Gamma_1 \cup \Gamma_2 \Rightarrow B}$$

$$\Gamma \Rightarrow \neg A \vee A$$

$$\frac{\Gamma_1 \Rightarrow \neg A \quad \Gamma_2 \Rightarrow A \vee B}{\Gamma_1 \cup \Gamma_2 \Rightarrow B}$$

$$\frac{\Gamma_1 \Rightarrow \neg A \quad \Gamma_2 \Rightarrow \neg B}{\Gamma_1 \cup \Gamma_2 \Rightarrow \neg(A \vee B)}$$