

# Правила секвенций

Секвенция:  
 $\Gamma \vdash \varphi$

Аксиома:  
 $\varphi \vdash \varphi$

$$1) \frac{\Gamma \vdash \varphi; \Gamma \vdash \psi}{\Gamma \vdash \varphi \wedge \psi}$$

$$2) \frac{\Gamma \vdash \varphi \wedge \psi}{\Gamma \vdash \varphi}$$

$$3) \frac{\varphi \wedge \Gamma \vdash \varphi \wedge \psi}{\Gamma \vdash \psi}$$

$$4) \frac{\Gamma \vdash \varphi}{\Gamma \vdash \varphi \vee \psi}$$

$$5) \frac{\Gamma \vdash \psi}{\Gamma \vdash \varphi \vee \psi}$$

$$6) \frac{\Gamma, \varphi \vdash \psi; \Gamma, \chi \vdash \psi; \Gamma \vdash \varphi \vee \chi}{\Gamma \vdash \psi}$$

$$7) \frac{\Gamma, \varphi \vdash \psi}{\Gamma \vdash \varphi \rightarrow \psi}$$

$$8) \frac{\Gamma \vdash \varphi; \Gamma \vdash \varphi \rightarrow \psi}{\Gamma \vdash \psi}$$

$$9) \frac{\Gamma, \neg \varphi \vdash \text{ложь}}{\Gamma \vdash \varphi}$$

$$10) \frac{\Gamma \vdash \varphi, \Gamma \vdash \neg \varphi}{\Gamma \vdash \text{ложь}}$$