

$$\begin{array}{c}
 \begin{array}{cc}
 \frac{}{\text{hyp}} & \frac{}{\text{hyp}} \\
 \hline
 P \vdash P & P \vdash P \\
 \hline
 \vdash \vee(L) & \vdash \vee(L)
 \end{array}
 \quad
 \begin{array}{cc}
 \frac{}{\text{hyp}} & \frac{}{\text{hyp}} \\
 \hline
 Q, R \vdash Q & Q, R \vdash R \\
 \hline
 \vdash \vee(R) & \vdash \vee(R)
 \end{array}
 \end{array}$$

$$\begin{array}{cc}
 Q, R \vdash P \vee Q & Q, R \vdash P \vee R \\
 \hline
 \vdash \wedge
 \end{array}$$

$$\begin{array}{cc}
 P \vdash P \vee Q & P \vdash P \vee R \\
 \hline
 \vdash \wedge
 \end{array}$$

$$\begin{array}{cc}
 Q, R \vdash (P \vee Q) \wedge (P \vee R) & \\
 \hline
 \wedge \vdash
 \end{array}$$

$$\begin{array}{cc}
 P \vdash (P \vee Q) \wedge (P \vee R) & Q \wedge R \vdash (P \vee Q) \wedge (P \vee R) \\
 \hline
 \vee \vdash
 \end{array}$$

$$P \vee (Q \wedge R) \vdash (P \vee Q) \wedge (P \vee R)$$