

$$\frac{\frac{\frac{\vdash p \wedge (q \vee r) \neg^{[1]}}{p} [\wedge\text{-elim-1}] \quad \frac{\vdash p \wedge (q \vee r) \neg^{[1]}}{q \vee r} [\wedge\text{-elim-2}]}{\frac{\frac{\vdash q \neg^{[2]}}{p \wedge q} [\wedge\text{ intro}] \quad \frac{\vdash r \neg^{[2]}}{p \wedge r} [\wedge\text{ intro}]}{\frac{\vdash p \wedge q \vee p \wedge r}{p \wedge (q \vee r) \Rightarrow p \wedge q \vee p \wedge r} [\vee\text{-intro-1}] \quad \frac{\vdash r \neg^{[2]}}{p \wedge q \vee p \wedge r} [\vee\text{-intro-2}]}[\vee\text{-intro-1}]}[\vee\text{-intro-2}]}[\Rightarrow\text{-intro}^{[1]}]$$