

$$\neg(p \wedge q) \rightarrow \neg p \vee \neg q$$

$$w_0 \not\models \neg(p \wedge q) \rightarrow \neg p \vee \neg q$$

\hookrightarrow ex. w with $(w_0, w) \in R$

$$w \models \neg(p \wedge q) \quad \rightsquigarrow \quad w \not\models p \wedge q$$

$$w \not\models \neg p \vee \neg q$$

$$w \not\models \neg p$$

$$w \not\models \neg q$$

ex. u with $(w, u) \in R$

$$u \models p$$

$$u \not\models p \wedge q$$

$$u \not\models q$$

ex. v with $(w, v) \in R$

$$v \models q$$

$$v \not\models p \wedge q$$

$$v \not\models p$$

