

Aside + Preview
Sp. 590

$P: \quad p :- \neg q$
 $\quad q :- \neg p$

$\mathcal{X}_0 = \emptyset \quad T_p^0(\emptyset) = \emptyset$
 $T_p^1(\emptyset) = \{p, q\}$
 $T_p^2(\emptyset) = T_p(T_p^1(\emptyset)) = T_p(\{p, q\}) = \emptyset$
 $T_p^3(\emptyset) = T_p^1(\emptyset) = T^{2n+1}(\emptyset)$
 $T_p^4(\emptyset) = T_p^2(\emptyset) = T^{2n}(\emptyset)$
"infinite dialog"
 1) $T_p^\omega(\emptyset) = \bigcup_{i=0, \dots, \infty} T_p^i(\emptyset) = \{p, q\} \models P$ is a Model!
 but $T_p(T_p(\emptyset)) \neq T_p$

2) Fixpoint? no. \Rightarrow no reasonable semantics
 but $T_p^{2n} \rightarrow \emptyset$ $\xrightarrow{\text{alternatingly fixpoint}} \emptyset$
 $T_p^{2n+1} \rightarrow \{p, q\}$ \searrow WFS

"overestimate"
 $\text{abs} \neq \lim_{n \rightarrow \infty} T_p^{2n+1}(\emptyset)$
 cannot be true

$\emptyset = T_p^0(?)$
 T_p
 Call next boy always true