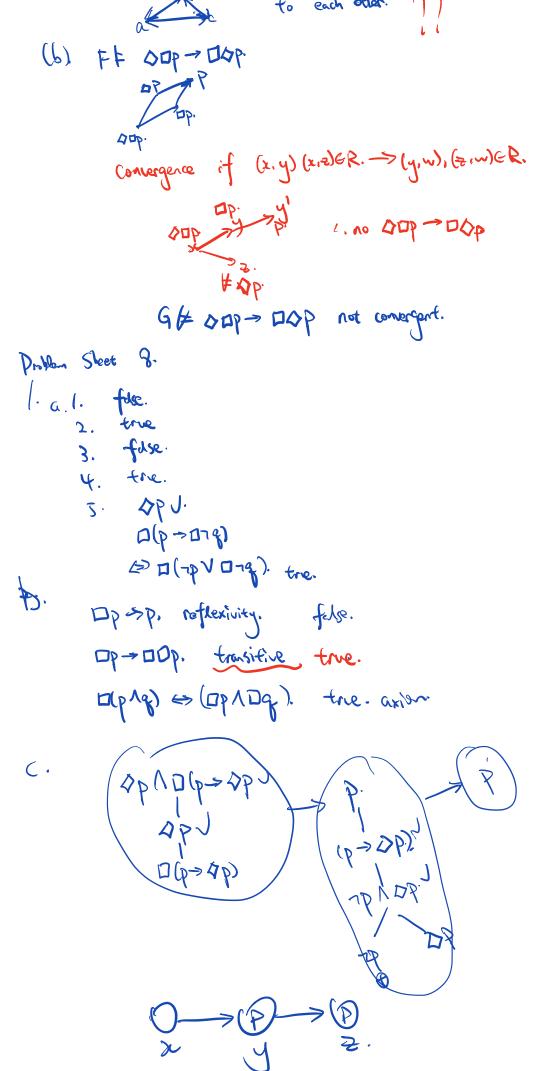
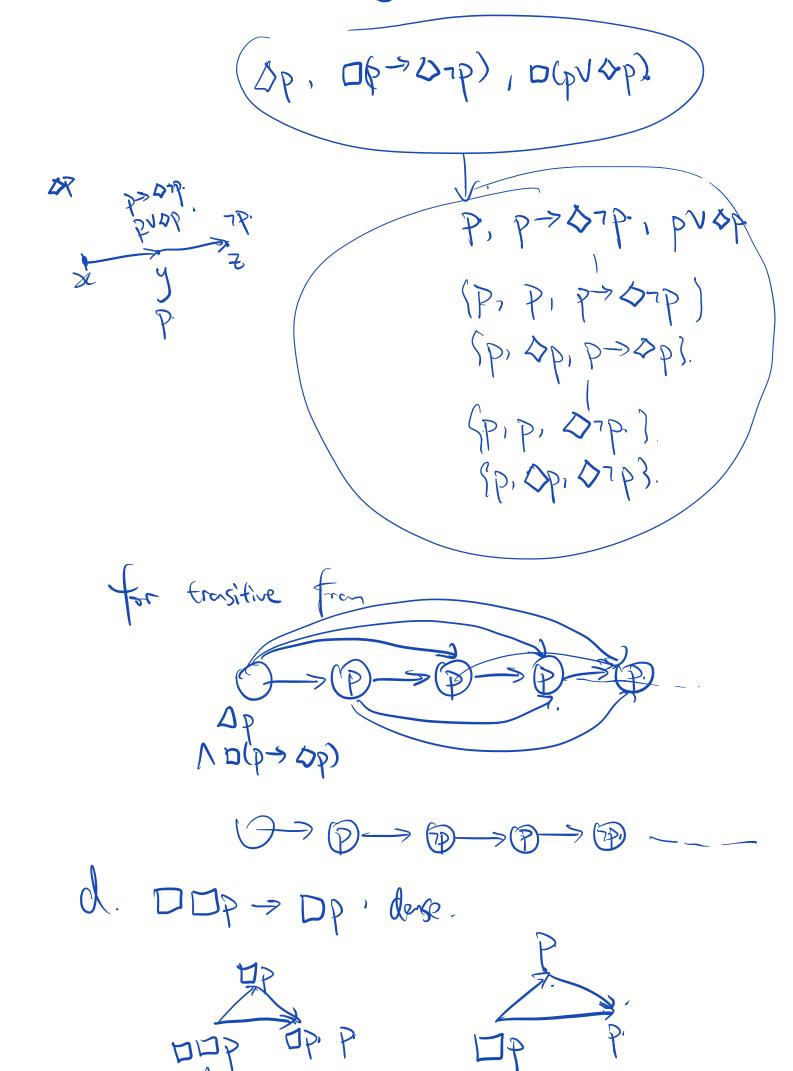
Problem Shoet 7. Kripke free is a graph (directed) 1. (a) Fivix. |= □q. fde. (b). Fivix = q1 1 (9+p) tre. (c). F. v. x. = QOL. tre. x-y. UT NO SUEDO, d' (a) $\square P \rightarrow P$ none of then x by one reflexive (b) \$(pV7p) every node has some world to point to (زي دزي (d). Dense. Huty (E(x,y) > The E(x, 3) A E(3, 9)) $\boldsymbol{\Theta}$ (e). DL V OD L. no outer has at least conn to a point with no outer 2. N² → ⊚ FF ST. every node in F connects to at least one other node. no end node (world)

if F is transitie, every other node connect





J Dp

DDD: BDD: Erasitive