



$$\forall_{x} (p_{x} \rightarrow Q_{x}) \models \exists_{x} (p_{x} \land \neg Q_{x})$$

∀x (Px→Qx) = ∃x (Px ∧ 7Qx)

∀x (Px→Qx) o ∃x (Px ∧ 7Qx)

Pc→Qc o ∃x (Px ∧ 7Qx)

Pc→Qc o Pc ∧ 7Qc

o Pc→Qc o Pc ∧ 7Qc

o Pc, Pc∧7Qc

o Pc, Pc∧7Qc

o Pc, Pc∧7Qc

o Pc, Pc∧7Qc

o Pc, Pc, TQc

o Pc, TQ

Yy Jx Rxy = Jx Yy Rxy | Jx Yy Rxy | Jx Yy Rxy | Yy Jx Rxy | Yy Jx Rxy | Jx Yy Rxy | Jx Yy Rxy | Yy Jx Rxy | Yy Xxy | Yy Xxy

Jx Yy Rxy = Yy Jx Rxy

Jx Yy Rxy o Yy Jx Rxy

exist.

Hy Rey o Yy Jx Rxy

exist. Yyken Ö Jx Rxd ) univ Rec, Red O Jx Rxd ) univ Rec, Red O Rcd, Rdd

So inference is valid.

We cope, 
$$Q_{c}$$
  $Q_{c}$   $Q_{$ 

 $\forall x p x \rightarrow V_x Q_x \quad O \quad \forall x \quad (p_x \rightarrow Q_x)$   $\downarrow v \quad Q_x \quad O \quad p_c \rightarrow Q_c \quad V_x p_x, \quad p_c \rightarrow Q_c \quad V_x p_x, \quad Q_c \quad V_x p_x, \quad$