

Assume the following.

$$\begin{aligned}
 & (\forall V0t \in 2.(((True \vee (p V0t)) \Leftrightarrow True) \wedge (((p V0t) \vee True) \Leftrightarrow True) \wedge \\
 & (((False \vee (p V0t)) \Leftrightarrow (p V0t)) \wedge (((p V0t) \vee False) \Leftrightarrow (p V0t)) \wedge (((p V0t) \vee \\
 & (p V0t)) \Leftrightarrow (p V0t)))))) \\
 \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned}
 & (\forall V0t \in 2.(((True \Rightarrow (p V0t)) \Leftrightarrow (p V0t)) \wedge (((p V0t) \Rightarrow True) \Leftrightarrow \\
 & True) \wedge (((False \Rightarrow (p V0t)) \Leftrightarrow True) \wedge (((p V0t) \Rightarrow (p V0t)) \Leftrightarrow True) \wedge ((\\
 & (p V0t) \Rightarrow False) \Leftrightarrow (\neg(p V0t))))))) \\
 \end{aligned} \tag{4}$$

Assume the following.

$$\forall A_27a.\text{nonempty } A_27a \Rightarrow (\forall V0x \in A_27a.(\forall V1y \in \\
 A_27a.((V0x = V1y) \Leftrightarrow (V1y = V0x)))) \tag{5}$$

Assume the following.

$$\begin{aligned}
 & (\forall V0t \in 2.(((True \Leftrightarrow (p V0t)) \Leftrightarrow (p V0t)) \wedge (((p V0t) \Leftrightarrow True) \Leftrightarrow \\
 & (p V0t)) \wedge (((False \Leftrightarrow (p V0t)) \Leftrightarrow (\neg(p V0t))) \wedge (((p V0t) \Leftrightarrow False) \Leftrightarrow (\neg(\\
 & p V0t))))))) \\
 \end{aligned} \tag{6}$$

Assume the following.

$$\begin{aligned}
 & (\forall V0t1 \in 2.(\forall V1t2 \in 2.(\forall V2t3 \in 2.(((p V0t1) \Rightarrow \\
 & ((p V1t2) \Rightarrow (p V2t3))) \Leftrightarrow (((p V0t1) \wedge (p V1t2)) \Rightarrow (p V2t3)))))) \\
 \end{aligned} \tag{7}$$

Assume the following.

$$\begin{aligned}
 & (\forall V0x \in 2.(\forall V1x_27 \in 2.(\forall V2y \in 2.(\forall V3y_27 \in \\
 & 2.(((p V0x) \Leftrightarrow (p V1x_27)) \wedge ((p V1x_27) \Rightarrow ((p V2y) \Leftrightarrow (p V3y_27)))))) \Rightarrow \\
 & (((p V0x) \Rightarrow (p V2y)) \Leftrightarrow ((p V1x_27) \Rightarrow (p V3y_27)))))) \\
 \end{aligned} \tag{8}$$

Theorem 1

$$\begin{aligned}
 & \forall A_27a.\text{nonempty } A_27a \Rightarrow (\forall V0R \in ((2^{A_27a})^{A_27a}). \\
 & (\forall V1s \in (2^{A_27a}).(p (ap (ap (c_2Erelation_2ERSUBSET A_27a \\
 & A_27a) V0R) (ap (ap (c_2Eset_relation_2ERREFL_EXP A_27a) V0R) \\
 & V1s)))))) \\
 \end{aligned}$$