

l5_scmfsa7b

(TMEhi1DmdxhZPB58Ezwo8dSYfYofn1VB3jfg)

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Let $v5_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k1_ordinal4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.((v5_ordinal1 X0) \wedge ((v1_relat_1 X0) \wedge ((v1_funct_1 \\
 & X0) \wedge (v1_finset_1 X0)))) \Rightarrow (\forall X1.((v5_ordinal1 X1) \wedge ((v1_relat_1 \\
 & X1) \wedge ((v1_funct_1 X1) \wedge (v1_finset_1 X1)))) \Rightarrow (\forall X2.((v5_ordinal1 \\
 & X2) \wedge ((v1_relat_1 X2) \wedge ((v1_funct_1 X2) \wedge (v1_finset_1 X2)))) \Rightarrow \\
 & (\forall X3.((v5_ordinal1 X3) \wedge ((v1_relat_1 X3) \wedge ((v1_funct_1 \\
 & X3) \wedge (v1_finset_1 X3)))) \Rightarrow ((k1_ordinal4 (k1_ordinal4 (k1_ordinal4 \\
 & X0 X1) X2) X3 = k1_ordinal4 (k1_ordinal4 X0 X1) (k1_ordinal4 X2 X3)) \wedge \\
 & ((k1_ordinal4 (k1_ordinal4 (k1_ordinal4 X0 X1) X2) X3 = k1_ordinal4 \\
 & X0 (k1_ordinal4 (k1_ordinal4 X1 X2) X3)) \wedge ((k1_ordinal4 (k1_ordinal4 \\
 & (k1_ordinal4 X0 X1) X2) X3 = k1_ordinal4 X0 (k1_ordinal4 X1 (k1_ordinal4 \\
 & X2 X3))) \wedge (k1_ordinal4 (k1_ordinal4 (k1_ordinal4 X0 X1) X2) X3 = \\
 & k1_ordinal4 (k1_ordinal4 X0 (k1_ordinal4 X1 X2) X3))))))
 \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned}
 & \forall X0.((v5_ordinal1 X0) \wedge ((v1_relat_1 X0) \wedge ((v1_funct_1 \\
 & X0) \wedge (v1_finset_1 X0)))) \Rightarrow (\forall X1.((v5_ordinal1 X1) \wedge ((v1_relat_1 \\
 & X1) \wedge ((v1_funct_1 X1) \wedge (v1_finset_1 X1)))) \Rightarrow (\forall X2.((v5_ordinal1 \\
 & X2) \wedge ((v1_relat_1 X2) \wedge ((v1_funct_1 X2) \wedge (v1_finset_1 X2)))) \Rightarrow \\
 & (\forall X3.((v5_ordinal1 X3) \wedge ((v1_relat_1 X3) \wedge ((v1_funct_1 \\
 & X3) \wedge (v1_finset_1 X3)))) \Rightarrow (k1_ordinal4 (k1_ordinal4 (k1_ordinal4 \\
 & X0 X1) X2) X3 = k1_ordinal4 X0 (k1_ordinal4 (k1_ordinal4 X1 X2) X3))))
 \end{aligned}$$