

t36_complsp2
(TMK92PkbfdY4mrFtkyMos37uG7uwJP2gCM5)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $v1_valued_0 : \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k45_valued_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_valued_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_valued_0 X0))) \Rightarrow \\ & \quad (\forall X1.((v1_relat_1 X1) \wedge ((v1_funct_1 X1) \wedge (v1_valued_0 \\ & \quad X1)))) \Rightarrow (\forall X2.((v1_relat_1 X2) \wedge ((v1_funct_1 X2) \wedge (v1_valued_0 \\ & \quad X2)))) \Rightarrow (k45_valued_1 X0 (k1_valued_1 X1 X2) = k45_valued_1 (k45_valued_1 \\ & \quad X0 X1) X2))) \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge ((v1_finseq_1 \\ & \quad X0) \wedge (v1_valued_0 X0)))) \Rightarrow (\forall X1.((v1_relat_1 X1) \wedge ((v1_funct_1 \\ & \quad X1) \wedge (v1_finseq_1 X1) \wedge (v1_valued_0 X1)))) \Rightarrow (\forall X2.((v1_relat_1 \\ & \quad X2) \wedge ((v1_funct_1 X2) \wedge (v1_finseq_1 X2) \wedge (v1_valued_0 X2)))) \Rightarrow \\ & \quad (((k3_finseq_1 X0 = k3_finseq_1 X1) \wedge (k3_finseq_1 X1 = k3_finseq_1 \\ & \quad X2)) \Rightarrow (k45_valued_1 (k45_valued_1 X0 X1) X2 = k45_valued_1 X0 (k1_valued_1 \\ & \quad X1 X2)))))) \end{aligned}$$