

t10_hilbert3

(TMEn1XDK4u4cR_xzWwhxFAEzAYpNaFHWp9ub)

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Let $k4_funct_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. ((X0 \neq X1) \Rightarrow (k1_funct_1 \\ & (k4_funct_4 X0 X1 X2 X3) X0 = X2)) \wedge (k1_funct_1 (k4_funct_4 X0 X1 X2 \\ & X3) X1 = X3) \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ & (k4_funct_4 X0 X1 X2 X3 = k4_funct_4 X0 X1 X4 X5) \Rightarrow ((X0 = X1) \vee ((X2 = X4) \wedge \\ & (X3 = X5))) \end{aligned}$$