

t27_borsuk_7

(TMaV55fPWoikLzgjDULVM4ShRGGXfsK83qC)

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Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_borsuk_7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k16_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_funct_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ & \neg(X0 \neq X1) \wedge ((X2 \neq X0) \wedge (k1_funct_1 (k1_funct_4 (k1_funct_4 (k16_funcop_1 \\ & \quad X0 X3) (k16_funcop_1 X1 X4)) (k16_funcop_1 X2 X5)) X0 \neq X3)) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. k4_funct_4 X0 X1 X2 \\ & X3 = k1_funct_4 (k16_funcop_1 X0 X2) (k16_funcop_1 X1 X3) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ & k1_borsuk_7 X0 X1 X2 X3 X4 X5 = k1_funct_4 (k4_funct_4 X0 X1 X3 X4) (\\ & \quad k16_funcop_1 X2 X5) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ & (v1_xcmplx_0 X5) \Rightarrow (\neg(X0 \neq X1) \wedge ((X0 \neq X5) \wedge (k1_funct_1 (k1_borsuk_7 \\ & \quad X0 X1 X5 X2 X3 X4) X0 \neq X2))) \end{aligned}$$