

t55_funct_5
(TMLHfGD5Yy9sS41PfZ7zx42dcwJN8TL41fW)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k4_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_funct_5 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k1_funct_5 : \iota \Rightarrow \iota$ be given. Let $k2_funct_5 : \iota \Rightarrow \iota$ be given. Let $k3_funct_5 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1_relat_1 X2) \wedge (v1_funct_1 \\ & X2)) \Rightarrow ((r1_tarski (k10_xtuple_0 X2) (k4_partfun1 X0 X1)) \Rightarrow ((k1_xboole_0 \in \\ & k10_xtuple_0 X2) \vee ((k1_funct_5 (k2_funct_5 X2) = X2) \wedge (k3_funct_5 \\ & (k4_funct_5 X2) = X2)))) \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1_relat_1 X2) \wedge (v1_funct_1 \\ & X2)) \Rightarrow (\forall X3. ((v1_relat_1 X3) \wedge (v1_funct_1 X3)) \Rightarrow (((r1_tarski \\ & (k10_xtuple_0 X2) (k4_partfun1 X0 X1)) \wedge ((r1_tarski (k10_xtuple_0 \\ & X3) (k4_partfun1 X0 X1)) \wedge (k4_funct_5 X2 = k4_funct_5 X3))) \Rightarrow ((k1_xboole_0 \in \\ & k10_xtuple_0 X2) \vee ((k1_xboole_0 \in k10_xtuple_0 X3) \vee (X2 = X3)))) \end{aligned}$$