

t23_heyting2
(TMQQHSH2NNNWRtjphWwnp2m4nnmU635ipzr)

October 27, 2020

Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k5_substlat : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_heyting2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (v1_finset_1 X1) \Rightarrow (\forall X2. (m1_subset_1 \\ X2 (k4_partfun1 X0 X1)) \Rightarrow ((v1_finset_1 X2) \Rightarrow (k3_funct_2 (k4_partfun1 \\ X0 X1) (u1_struct_0 (k5_substlat X0 X1)) (k8_heyting2 X0 X1) X2 = \\ k1_tarski X2))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k1_tarski X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (X2 = X0)) \tag{2}$$

Theorem 1

$$\begin{aligned} \forall X0. \forall X1. (v1_finset_1 X1) \Rightarrow (\forall X2. ((v1_finset_1 \\ X2) \wedge (m1_subset_1 X2 (k4_partfun1 X0 X1))) \Rightarrow (X2 \in k3_funct_2 (k4_partfun1 \\ X0 X1) (u1_struct_0 (k5_substlat X0 X1)) (k8_heyting2 X0 X1) X2)) \end{aligned}$$