

t3_heyting2 (TMF- pdX6NvrKSMcziRye6ooTQSS9Ho4sQwkA)

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Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_finsub_1 : \iota \Rightarrow \iota$ be given. Let $k4_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_substlat : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_substlat : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k5_finsub_1 \\ & (k4_partfun1 X0 X1))) \Rightarrow (\forall X3. (m1_subset_1 X3 (k5_finsub_1 \\ & (k4_partfun1 X0 X1))) \Rightarrow (\forall X4. \neg (X4 \in k4_substlat X0 X1 X2 X3) \wedge \\ & (\forall X5. \neg (X5 \in X3) \wedge (r1_tarski X5 X4)))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \neg v1_xboole_0 (k1_substlat X0 X1) \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge \\ & (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2. (m2_subset_1 \\ & X2 X0 X1) \Rightarrow (m1_subset_1 X2 X0)) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. m1_subset_1 (k1_substlat X0 X1) (k1_zfmisc_1 (k5_finsub_1 (k4_partfun1 X0 X1))) \quad (4)$$

Assume the following.

$$\forall X0. (v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (v1_xboole_0 X1)) \quad (5)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (m2_subset_1 X2 (k5_finsub_1 \\ & (k4_partfun1 X0 X1)) (k1_substlat X0 X1)) \Rightarrow (\forall X3. (m2_subset_1 \\ & X3 (k5_finsub_1 (k4_partfun1 X0 X1)) (k1_substlat X0 X1)) \Rightarrow ((k4_substlat \\ & X0 X1 X2 X3 = X2) \Rightarrow (\forall X4. \neg (X4 \in X2) \wedge (\forall X5. \neg (X5 \in X3) \wedge (r1_tarski \\ & X5 X4)))))) \end{aligned}$$