

t9_hilbert3

(TMSiTu9tg6QokYnRqZSTTsrM3i6q2cmdo5M)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $np_1 : \iota$ be given. Let $k1_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k5_funct_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_funct_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (r1_funct_2 \\ X0 k5_numbers X0 (k2_tarski k1_xboole_0 np_1) (k1_partfun1 X0 \\ (k2_tarski k1_xboole_0 np_1) (k2_tarski k6_numbers np_1) k5_numbers \\ (k5_funct_3 X1 X0) (k5_funct_4 k5_numbers k6_numbers np_1 np_1 \\ k6_numbers)) (k5_funct_3 (k3_subset_1 X0 X1) X0)) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (k3_subset_1 \\ X0 (k3_subset_1 X0 X1) = X1) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (m1_subset_1 \\ (k3_subset_1 X0 X1) (k1_zfmisc_1 X0)) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (r1_funct_2 \\ X0 k5_numbers X0 (k2_tarski k1_xboole_0 np_1) (k1_partfun1 X0 \\ (k2_tarski k1_xboole_0 np_1) (k2_tarski k6_numbers np_1) k5_numbers \\ (k5_funct_3 (k3_subset_1 X0 X1) X0) (k5_funct_4 k5_numbers k6_numbers \\ np_1 np_1 k6_numbers)) (k5_funct_3 X1 X0)) \end{aligned}$$