

t10_hilbert1

(TMYmyAvNrNRG3ptgDS369gFrxsyizPUZezN)

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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 $k1_hilbert1 : \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_hilbert1 : \iota \Rightarrow \iota$ be given. Let $v6_hilbert1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1_tarski X0 X1) \wedge (r1_tarski X1 X2)) \Rightarrow (r1_tarski X0 X2) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (3)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 (k1_zfmisc_1 k1_hilbert1)) \Rightarrow (m1_subset_1 (k5_hilbert1 X0) (k1_zfmisc_1 k1_hilbert1)) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1_subset_1 X0 (k1_zfmisc_1 k1_hilbert1)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (k1_zfmisc_1 k1_hilbert1)) \Rightarrow ((X1 = k5_hilbert1 \\ & X0) \Leftrightarrow (\forall X2. (m1_subset_1 X2 k1_hilbert1) \Rightarrow ((X2 \in X1) \Leftrightarrow (\forall X3. \\ & (m1_subset_1 X3 (k1_zfmisc_1 k1_hilbert1)) \Rightarrow (((v6_hilbert1 X3) \wedge \\ & (r1_tarski X0 X3)) \Rightarrow (X2 \in X3))))))) \quad (6) \end{aligned}$$

Theorem 1

$$\begin{aligned} & \forall X0. (m1_subset_1 X0 (k1_zfmisc_1 k1_hilbert1)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (k1_zfmisc_1 k1_hilbert1)) \Rightarrow ((r1_tarski X0 X1) \Rightarrow \\ & (r1_tarski (k5_hilbert1 X0) (k5_hilbert1 X1)))) \end{aligned}$$