

t21_metric_1

(TMX5tH94jAQyZyMuFpgzwww9hSK4C7dBN5g)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_metric_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_metric_1 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Assume the following.

$$np_1 = k1_tarski\ k1_xboole_0 \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1\ X0\ X1) \Rightarrow ((v1_xboole_0\ X1) \vee (X0 \in X1)) \quad (2)$$

Assume the following.

$$\neg v1_xboole_0\ np_1 \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1_tarski\ X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (X2 = X0)) \quad (4)$$

Theorem 1

$$\forall X0.(m1_subset_1\ X0\ np_1) \Rightarrow (\forall X1.(m1_subset_1\ X1\ np_1) \Rightarrow (\neg(X0 \neq X1) \wedge (r1_xxreal_0\ (k1_metric_1\ np_1\ np_1\ k3_metric_1\ X0\ X1)\ k6_numbers))))$$