

t22_metric_1

(TMabS69PVjWyA9S1eP5T5PiDdhWRGicS6gn)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k1_metric_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_metric_1 : \iota$ 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.

$$np_1 = k1_tarski \ k1_xboole_0 \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 \ X0 \ X1) \Rightarrow ((v1_xboole_0 \ X1) \vee (X0 \in X1)) \tag{2}$$

Assume the following.

$$\neg v1_xboole_0 \ np_1 \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k1_tarski \ X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (X2 = X0)) \tag{4}$$

Theorem 1

$$\forall X0. (m1_subset_1 \ X0 \ np_1) \Rightarrow (\forall X1. (m1_subset_1 \ X1 \ np_1) \Rightarrow (k1_metric_1 \ np_1 \ np_1 \ k3_metric_1 \ X0 \ X1 = k1_metric_1 \ np_1 \ np_1 \ k3_metric_1 \ X1 \ X0))$$