

t24_classes1
(TMRCLv7y6GsY94ZaKp8s496ajfQwxKrb9CM)

October 27, 2020

Let $k1_classes1 : \iota \Rightarrow \iota$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2_wellord2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $k3_classes1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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.

$$\forall X0. \forall X1. \forall X2. ((X0 \in k1_classes1 X1) \wedge (r1_tarski X2 X0)) \Rightarrow (X2 \in k1_classes1 X1) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski (k1_zfmisc_1 X0) X1) \Rightarrow ((k1_card_1 X0 \in k1_card_1 X1) \wedge (\neg r2_wellord2 X0 X1)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (4)$$

Assume the following.

$$\forall X0. \exists X1. (v3_ordinal1 X1) \wedge (k3_classes1 X0 X1 = k1_classes1 X0) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (6)$$

Theorem 1

$$\forall X0. \forall X1. (X0 \in k1_classes1 X1) \Rightarrow (k1_card_1 X0 \in k1_card_1 (k1_classes1 X1))$$