

t3_mesfunc1

(TMV5a6MMBv7vCzLvBrSQvEvhYgwSEW6mGfc)

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Let $r2_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k4_numbers : \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $r2_wellord2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k1_mesfunc1 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \neg(\neg v1_finset_1 X0) \wedge (((r2_wellord2 X0 X1) \vee (r2_wellord2 X1 X0)) \wedge (\neg(r2_wellord2 (k2_xboole_0 X0 X1) X0) \wedge (k1_card_1 (k2_xboole_0 X0 X1) = k1_card_1 X0))) \quad (1)$$

Assume the following.

$$k4_numbers = k4_subset_1 k1_numbers k1_mesfunc1 k5_numbers \quad (2)$$

Assume the following.

$$r2_tarski k5_numbers k1_mesfunc1 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (r2_wellord2 X0 X1) \Rightarrow (r2_wellord2 X1 X0) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (r2_wellord2 X0 X1) \Leftrightarrow (r2_tarski X0 X1) \quad (5)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (6)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((m1_subset_1 X1 (k1_zfmisc_1 X0)) \wedge (m1_subset_1 X2 (k1_zfmisc_1 X0))) \Rightarrow (k4_subset_1 X0 X1 X2 = k2_xboole_0 X1 X2) \quad (7)$$

Assume the following.

$$\neg v1_finset_1 k4_ordinal1 \quad (8)$$

Assume the following.

$$m1_subset_1 k5_numbers (k1_zfmisc_1 k1_numbers) \quad (9)$$

Assume the following.

$$m1_subset_1 k1_mesfunc1 (k1_zfmisc_1 k1_numbers) \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.k2_xboole_0 X0 X1 = k2_xboole_0 X1 X0 \quad (11)$$

Theorem 1 $r2_tarski k5_numbers k4_numbers$.