

t54_flang_2
(TMQEtKu6dUuy1SFtD33x9YzkyxpxD JLWUCf)

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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 $k8_afinsq_1 : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_flang_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ 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.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (k8_afinsq_1 X0))) \Rightarrow (\forall X3. (v7_ordinal1 X3) \Rightarrow (\forall X4. (v7_ordinal1 X4) \Rightarrow ((r1_tarski X1 X2) \Rightarrow (r1_tarski (k1_flang_2 X0 X1 X3 X4) (k1_flang_2 X0 X2 X3 X4)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1_tarski X0 X1) \wedge (r1_tarski X0 X2)) \Rightarrow (r1_tarski X0 (k3_xboole_0 X1 X2)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. r1_tarski (k3_xboole_0 X0 X1) X0 \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (r1_tarski X0 X1) \Rightarrow (r1_tarski (k3_xboole_0 X0 X2) X1) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k1_zfmisc_1 X0)) \Rightarrow (k9_subset_1 X0 X1 X2 = k3_xboole_0 X1 X2) \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.((m1_subset_1 X1 \\ & (k1_zfmisc_1 (k8_afinsq_1 X0)))\wedge((v7_ordinal1 X2)\wedge(v7_ordinal1 \\ & X3)))\Rightarrow(m1_subset_1 (k1_flang_2 X0 X1 X2 X3) (k1_zfmisc_1 (k8_afinsq_1 \\ & X0))) \end{aligned} \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.k3_xboole_0 X0 X1 = k3_xboole_0 X1 X0 \tag{8}$$

Theorem 1

$$\begin{aligned} & \forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 \\ & X0)))\Rightarrow(\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k8_afinsq_1 \\ & X0)))\Rightarrow(\forall X3.(v7_ordinal1 X3)\Rightarrow(\forall X4.(v7_ordinal1 \\ & X4)\Rightarrow(r1_tarski (k1_flang_2 X0 (k9_subset_1 (k8_afinsq_1 X0) X1 \\ & X2) X3 X4) (k9_subset_1 (k8_afinsq_1 X0) (k1_flang_2 X0 X1 X3 X4) \\ & (k1_flang_2 X0 X2 X3 X4)))))) \end{aligned}$$