

l13_qmax_1

(TMKyoJ7Pj5vMBwDWYrxafX3QmqbRyKaFwAX)

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Let $r2_reset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k1_reset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k12_prob_1 : \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k1_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $c3_qmax_1 : \iota$ be given. Let $k8_mcart_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. k2_zfmisc_1 (k1_tarski X0) (k1_tarski X1) = k1_tarski (k4_tarski X0 X1) \quad (1)$$

Assume the following.

$$m1_subset_1 k1_xboole_0 k4_ordinal1 \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. ((m1_subset_1 X2 (k1_zfmisc_1 X0)) \wedge (m1_subset_1 X3 (k1_zfmisc_1 X1))) \Rightarrow (k8_mcart_1 X0 X1 X2 X3 = k2_zfmisc_1 X2 X3) \quad (3)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge (m1_subset_1 X1 X0)) \Rightarrow (k6_domain_1 X0 X1 = k1_tarski X1) \quad (5)$$

Assume the following.

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

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.((\neg v1_xboole_0 X0)\wedge \\ & ((\neg v1_xboole_0 X1)\wedge((m1_subset_1 X2 X0)\wedge(m1_subset_1 X3 X1))))\Rightarrow \\ & (k1_domain_1 X0 X1 X2 X3 = k4_tarski X2 X3) \end{aligned} \quad (7)$$

Assume the following.

$$\begin{aligned} & r2_relset_1 k5_numbers k5_numbers (k1_relset_1 (k2_zfmisc_1 \\ & k5_numbers k5_numbers) (k6_domain_1 (k2_zfmisc_1 (k2_zfmisc_1 \\ & k5_numbers k5_numbers) (k1_zfmisc_1 (k2_zfmisc_1 k12_prob_1 \\ & k1_numbers)))) (k1_domain_1 (k2_zfmisc_1 k5_numbers k5_numbers) \\ & (k1_zfmisc_1 (k2_zfmisc_1 k12_prob_1 k1_numbers)) (k1_domain_1 \\ & k5_numbers k5_numbers k6_numbers k6_numbers) c3_qmax_1))) (\\ & k6_domain_1 (k2_zfmisc_1 k5_numbers k5_numbers) (k1_domain_1 \\ & k5_numbers k5_numbers k6_numbers k6_numbers) \end{aligned} \quad (8)$$

Assume the following.

$$(\neg v1_xboole_0 k4_ordinal1)\wedge(v3_ordinal1 k4_ordinal1) \quad (9)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((\neg v1_xboole_0 X0)\wedge(\neg v1_xboole_0 X1))\Rightarrow \\ & (\neg v1_xboole_0 (k2_zfmisc_1 X0 X1)) \end{aligned} \quad (10)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((\neg v1_xboole_0 X0)\wedge(m1_subset_1 X1 X0))\Rightarrow \\ & (m1_subset_1 (k6_domain_1 X0 X1) (k1_zfmisc_1 X0)) \end{aligned} \quad (11)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.((\neg v1_xboole_0 X0)\wedge \\ & ((\neg v1_xboole_0 X1)\wedge((m1_subset_1 X2 X0)\wedge(m1_subset_1 X3 X1))))\Rightarrow \\ & (m1_subset_1 (k1_domain_1 X0 X1 X2 X3) (k2_zfmisc_1 X0 X1)) \end{aligned} \quad (12)$$

Theorem 1

$$\begin{aligned} & r2_relset_1 k5_numbers k5_numbers (k1_relset_1 (k2_zfmisc_1 \\ & k5_numbers k5_numbers) (k6_domain_1 (k2_zfmisc_1 (k2_zfmisc_1 \\ & k5_numbers k5_numbers) (k1_zfmisc_1 (k2_zfmisc_1 k12_prob_1 \\ & k1_numbers)))) (k1_domain_1 (k2_zfmisc_1 k5_numbers k5_numbers) \\ & (k1_zfmisc_1 (k2_zfmisc_1 k12_prob_1 k1_numbers)) (k1_domain_1 \\ & k5_numbers k5_numbers k6_numbers k6_numbers) c3_qmax_1))) (\\ & k8_mcart_1 k5_numbers k5_numbers (k6_domain_1 k5_numbers k6_numbers) \\ & (k6_domain_1 k5_numbers k6_numbers) \end{aligned}$$