

l34_realset2 (TMJSSqjqgBB- wSm3JUoPfHrc3HWEbvEFhRSM)

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Let $m3_realset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_realset2 : \iota$ be given. Let $c4_realset2 : \iota$ be given. Let $c5_realset2 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $np_2 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_7 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\neg v1_xboole_0 \ np_2 \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1_xboole_0 \ X0) \wedge (m1_subset_1 \ X1 \ X0)) \Rightarrow (k6_domain_1 \ X0 \ X1 = k1_tarski \ X1) \tag{2}$$

Assume the following.

$$\forall X0. (X0 \in k2_zfmisc_1 \ (k6_subset_1 \ c4_realset2 \ (k6_domain_1 \ np_2 \ (k1_funct_7 \ k6_numbers \ np_2))) \ (k6_subset_1 \ c4_realset2 \ (k6_domain_1 \ np_2 \ (k1_funct_7 \ k6_numbers \ np_2)))) \Rightarrow (k1_funct_1 \ k2_realset2 \ X0 \in k6_subset_1 \ c4_realset2 \ (k6_domain_1 \ np_2 \ (k1_funct_7 \ k6_numbers \ np_2))) \tag{3}$$

Assume the following.

$$(v1_funct_1 \ k2_realset2) \wedge ((v1_funct_2 \ k2_realset2 \ (k2_zfmisc_1 \ np_2 \ np_2) \ np_2) \wedge (m1_subset_1 \ k2_realset2 \ (k1_zfmisc_1 \ (k2_zfmisc_1 \ (k2_zfmisc_1 \ np_2 \ np_2) \ np_2)))) \tag{4}$$

Assume the following.

$$m1_subset_1 \ c5_realset2 \ c4_realset2 \tag{5}$$

Assume the following.

$$c5_realset2 = k1_funct_7 \ k6_numbers \ np_2 \tag{6}$$

Assume the following.

$$c4_realset2 = np_2 \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 X0) \Rightarrow (\forall X2. ((v1_funct_1 \\ & X2) \wedge ((v1_funct_2 X2 (k2_zfmisc_1 X0 X0) X0) \wedge (m1_subset_1 X2 (k1_zfmisc_1 \\ & (k2_zfmisc_1 (k2_zfmisc_1 X0 X0) X0)))))) \Rightarrow ((m3_realset1 X2 X0 X1) \Leftrightarrow \\ & (\forall X3. (X3 \in k2_zfmisc_1 (k6_subset_1 X0 (k1_tarski X1)) (\\ & k6_subset_1 X0 (k1_tarski X1)))) \Rightarrow (k1_funct_1 X2 X3 \in k6_subset_1 \\ & X0 (k1_tarski X1)))))) \end{aligned} \quad (8)$$

Theorem 1 $m3_realset1$ $k2_realset2$ $c4_realset2$ $c5_realset2$.