

l11_csspace4
(TMTEi9pVePchDghAtFuSmiPjHuq7dMVU647)

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Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k2_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_comseq_2 : \iota \Rightarrow o$ be given. Let $k55_valued_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_valued_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \exists X0. (m1_subset_1 X0 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers \\ k2_numbers))) \wedge (v1_relat_1 X0) \wedge (v4_relat_1 X0 k5_numbers) \wedge \\ ((v5_relat_1 X0 k2_numbers) \wedge ((v1_funct_1 X0) \wedge (\neg v1_xboole_0 \\ X0) \wedge ((v1_partfun1 X0 k5_numbers) \wedge ((v1_funct_2 X0 k5_numbers \\ k2_numbers) \wedge ((v1_valued_0 X0) \wedge (v1_comseq_2 X0)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. ((v1_funct_1 X1) \wedge (\\ m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 k2_numbers)))) \Rightarrow (\\ (v1_comseq_2 (k55_valued_1 X0 k2_numbers X1)) \Leftrightarrow (v1_comseq_2 X1))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (v1_xboole_0 X0) \Rightarrow (\forall X2. (m1_subset_1 \\ X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1))) \Rightarrow (v1_xboole_0 X2)) \quad (3)$$

Theorem 1

$$\begin{aligned} \forall X0. ((v1_funct_1 X0) \wedge ((v1_funct_2 X0 k5_numbers k2_numbers) \wedge \\ (m1_subset_1 X0 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers k2_numbers)))) \Rightarrow \\ ((v1_comseq_2 (k55_valued_1 k5_numbers k2_numbers X0)) \Rightarrow (v1_comseq_2 \\ X0)) \end{aligned}$$