

l20_numbers
(TMdngzYfTHp7vHENFmrjJ9y64wmiip9JnjZ)

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Let $np_2 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v2_xreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & ((v2_xreal_0\ np_2) \wedge (m2_subset_1\ np_2\ k1_numbers\ k5_numbers)) \wedge \\ & ((m1_subset_1\ np_2\ k5_numbers) \wedge (m1_subset_1\ np_2\ k1_numbers)) \end{aligned} \quad (1)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (2)$$

Assume the following.

$$(\neg v1_xboole_0\ k4_ordinal1) \wedge (v3_ordinal1\ k4_ordinal1) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v1_xboole_0\ X0) \Rightarrow ((m1_subset_1\ X1\ X0) \Leftrightarrow \\ & (X1 \in X0))) \wedge ((v1_xboole_0\ X0) \Rightarrow ((m1_subset_1\ X1\ X0) \Leftrightarrow (v1_xboole_0 \\ & X1))) \end{aligned} \quad (4)$$

Theorem 1 $np_2 \in k4_ordinal1$.