

t10_supinf_2
(TMJ5pCec24johYxUa5kApVXDfsDKvEAe6xm)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k7_numbers : \iota$ be given. Let $v4_xxreal_2 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8_supinf_2 : \iota \Rightarrow \iota$ be given. Let $k5_supinf_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_supinf_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.((\neg v1_xboole_0 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 k7_numbers))) \Rightarrow \\ (\forall X1.((\neg v1_xboole_0 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\ k7_numbers))) \Rightarrow (r1_xxreal_0 (k8_supinf_2 (k5_supinf_2 X0 X1) \\ (k3_supinf_2 (k8_supinf_2 X0) (k8_supinf_2 X1)))))) \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} \forall X0.((\neg v1_xboole_0 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 k7_numbers))) \Rightarrow \\ (\forall X1.((\neg v1_xboole_0 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\ k7_numbers))) \Rightarrow (((v4_xxreal_2 X0) \wedge (v4_xxreal_2 X1)) \Rightarrow (r1_xxreal_0 \\ (k8_supinf_2 (k5_supinf_2 X0 X1) (k3_supinf_2 (k8_supinf_2 X0) \\ (k8_supinf_2 X1)))))) \end{aligned}$$