t11_supinf_2 (TMXuhXKJw7ywbXd6nTko856bpsfUjvztjp3)

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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 $v3\_xxreal\_2 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_supinf\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_supinf\_2 : \iota \Rightarrow \iota$ be given. Let $k5\_supinf\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((\neg v1\_xboole\_0\ X0) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k7\_numbers))) \Rightarrow (\forall X1.((\neg v1\_xboole\_0\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ k7\_numbers))) \Rightarrow (r1\_xxreal\_0\ (k3\_supinf\_2\ (k7\_supinf\_2\ X0)\ (k7\_supinf\_2\ X1))\ (k7\_supinf\_2\ (k5\_supinf\_2\ X0\ X1)))) \tag{1}$$

Theorem 1

$$\forall X0.((\neg v1\_xboole\_0\ X0) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k7\_numbers))) \Rightarrow (\forall X1.((\neg v1\_xboole\_0\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ k7\_numbers))) \Rightarrow (((v3\_xxreal\_2\ X0) \wedge (v3\_xxreal\_2\ X1)) \Rightarrow (r1\_xxreal\_0\ (k3\_supinf\_2\ (k7\_supinf\_2\ X0)\ (k7\_supinf\_2\ X1))\ (k7\_supinf\_2\ (k5\_supinf\_2\ X0\ X1)))))$$