t1_rinfsup2 (TMHiTevnrsGs3nDoxoA73tjA5SzAxYfiRnU)

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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 $k1\_numbers : \iota$ be given. Let $v4\_xxreal\_2 : \iota \Rightarrow o$ be given. Let $k8\_supinf\_2 : \iota \Rightarrow \iota$ be given. Let $k4\_seq\_4 : \iota \Rightarrow \iota$ be given. Let $v2\_membered : \iota \Rightarrow o$ be given. Let $k1\_xxreal\_2 : \iota \Rightarrow \iota$ be given. Let $k2\_seq\_4 : \iota \Rightarrow \iota$ be given. Let $v3\_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v2\_membered\ X0) \Rightarrow (k8\_supinf\_2\ X0 = k1\_xxreal\_2\ X0) \tag{1}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k1\_numbers)) \Rightarrow (k4\_seq\_4\ X0 = k2\_seq\_4\ X0) \tag{2}$$

Assume the following.

$$\forall X0.((\neg v1\_xboole\_0\ X0) \wedge ((v3\_membered\ X0) \wedge (v4\_xxreal\_2\ X0))) \Rightarrow (k2\_seq\_4\ X0 = k1\_xxreal\_2\ X0) \tag{3}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k1\_numbers)) \Rightarrow (v3\_membered\ X0) \tag{4}$$

Assume the following.

$$\forall X0.(v3\_membered\ X0) \Rightarrow (v2\_membered\ X0) \tag{5}$$

Theorem 1

$$\forall X0.((\neg v1\_xboole\_0\ X0) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k7\_numbers))) \Rightarrow (\forall X1.((\neg v1\_xboole\_0\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ k1\_numbers))) \Rightarrow (((X0 = X1) \wedge (v4\_xxreal\_2\ X1)) \Rightarrow ((v4\_xxreal\_2\ X0) \wedge (k8\_supinf\_2\ X0 = k4\_seq\_4\ X1))))$$