t19_extreal2 (TMU5vzLQVjWdBSduAW7rWEqkRmpsJVkRp2U)

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Let $k3\_extreal1 : \iota \Rightarrow \iota$ be given. Let $k1\_supinf\_1 : \iota$ be given. Let $k2\_supinf\_1 : \iota$ be given. Let $k2\_xxreal\_3 : \iota \Rightarrow \iota$ be given. Let $k1\_xxreal\_0 : \iota$ be given. Let $k2\_xxreal\_0 : \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7\_numbers : \iota$ be given. Let $k2\_supinf\_2 : \iota \Rightarrow \iota$ be given. Let $v3\_xxreal\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$k2\_xxreal\_3\ k1\_xxreal\_0 = k2\_xxreal\_0 \tag{1}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k7\_numbers) \Rightarrow ((k3\_extreal1\ X0 = X0) \vee (k3\_extreal1\ X0 = k2\_supinf\_2\ X0)) \tag{2}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k7\_numbers) \Rightarrow (k3\_extreal1\ X0 = k3\_extreal1\ (k2\_supinf\_2\ X0)) \tag{3}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k7\_numbers) \Rightarrow (k2\_supinf\_2\ X0 = k2\_xxreal\_3\ X0) \tag{4}$$

Assume the following.

$$k2\_supinf\_1 = k2\_xxreal\_0 \tag{5}$$

Assume the following.

$$k1\_supinf\_1 = k1\_xxreal\_0 \tag{6}$$

Assume the following.

$$v3\_xxreal\_0\ k2\_xxreal\_0 \tag{7}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k7\_numbers) \Rightarrow (\neg v3\_xxreal\_0\ (k3\_extreal1\ X0)) \tag{8}$$

Assume the following.

$$m1\_subset\_1\ k1\_supinf\_1\ k7\_numbers \tag{9}$$

Theorem 1

$$(k3\_extreal1\ k1\_supinf\_1 = k1\_supinf\_1) \wedge (k3\_extreal1\ k2\_supinf\_1 = k1\_supinf\_1)$$