

t3\_extreal1  
(TMUD25AUZ2hr7VAcHwBbj5eRi1pb6PCjdgq)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k7\_numbers : \iota$  be given. Let  $r1\_xreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k3\_extreal1 : \iota \Rightarrow \iota$  be given. Let  $k2\_supinf\_2 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k7\_numbers) \Rightarrow (((r1\_xreal\_0 k6\_numbers X0) \Rightarrow (k3\_extreal1 X0 = X0)) \wedge ((\neg r1\_xreal\_0 k6\_numbers X0) \Rightarrow (k3\_extreal1 X0 = k2\_supinf\_2 X0))) \quad (1)$$

**Theorem 1**

$$\forall X0.(m1\_subset\_1 X0 k7\_numbers) \Rightarrow ((r1\_xreal\_0 k6\_numbers X0) \Rightarrow (k3\_extreal1 X0 = X0))$$