

t2_extreal2

(TMcK9g9jbqvBnm8vXYRa2oEiD7WcK1GwSXi)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_numbers : \iota$ be given. Let $k3_extreal1 : \iota \Rightarrow \iota$ be given. Let $k2_supinf_2 : \iota \Rightarrow \iota$ be given. Let $r1_xreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ 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

$$\forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow ((k3_extreal1 X0 = X0) \vee (k3_extreal1 X0 = k2_supinf_2 X0))$$