

t5_extreal2 (TMGiUMy-
VAooN7EePi6HnxWD41tYFnPxog6r)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_numbers : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k3_extreal1 : \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow (\neg(X0 \neq k6_numbers) \wedge (r1_xxreal_0 (k3_extreal1 X0) k6_numbers)) \quad (1)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow (r1_xxreal_0 k6_numbers (k3_extreal1 X0)) \quad (2)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow ((r1_xxreal_0 k6_numbers X0) \Rightarrow (k3_extreal1 X0 = X0)) \quad (3)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow (r1_xxreal_0 X0 X1) \vee (r1_xxreal_0 X1 X0) \quad (5)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow (v1_xxreal_0 X0) \quad (6)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow ((X0 = k6_numbers) \Leftrightarrow (k3_extreal1 X0 = k6_numbers))$$