

l46_borsuk_5

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Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $v2_rcomp_1 : \iota \Rightarrow o$ be given. Let $k4_rcomp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xxreal_0 : \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k3_xxreal_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_limfunc1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. ((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow (k4_rcomp_1 X0 X1 = k3_xxreal_1 X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. (v1_xreal_0 X0) \Rightarrow (v2_rcomp_1 (k1_limfunc1 X0)) \quad (2)$$

Assume the following.

$$v1_xxreal_0 k2_xxreal_0 \quad (3)$$

Assume the following.

$$\forall X0. (v1_xreal_0 X0) \Rightarrow (k1_limfunc1 X0 = k3_xxreal_1 k2_xxreal_0 X0) \quad (4)$$

Theorem 1 $\forall X0. (v1_xreal_0 X0) \Rightarrow (v2_rcomp_1 (k4_rcomp_1 k2_xxreal_0 X0))$.