

t26_borsuk_5

(TMSXYEAqrRdCYiiDFNLj1vdpEaJtDu4AXr6)

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Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_rat_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\neg(\neg r1_xxreal_0 X1 X0) \wedge (\forall X2.(v1_rat_1 X2) \Rightarrow (\neg(\neg r1_xxreal_0 X2 X0) \wedge (\neg r1_xxreal_0 X1 X2)))))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_rat_1 X0) \Rightarrow (v1_xreal_0 X0) \quad (2)$$

Theorem 1

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\neg(\neg r1_xxreal_0 X1 X0) \wedge (\forall X2.(v1_rat_1 X2) \Rightarrow (\forall X3.(v1_rat_1 X3) \Rightarrow (\neg(\neg r1_xxreal_0 X2 X0) \wedge ((\neg r1_xxreal_0 X3 X2) \wedge (\neg r1_xxreal_0 X1 X3))))))))))$$