

t7_borsuk_4 (TMUnCEmznYDF- fRP4dzk1ZpZ6aUZBR7nyLBq)

October 27, 2020

Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $np_1 : \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xreal_0 X2) \Rightarrow (\forall X3.(v1_xreal_0 X3) \Rightarrow (((r1_xxreal_0 \\ & k6_numbers X0) \wedge ((r1_xxreal_0 X0 np_1) \wedge ((r1_xxreal_0 X1 X2) \wedge \\ & (r1_xxreal_0 X1 X3)))))) \Rightarrow (r1_xxreal_0 X1 (k2_xcmplx_0 (k3_xcmplx_0 \\ & (k6_xcmplx_0 np_1 X0) X2) (k3_xcmplx_0 X0 X3)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow (r1_xxreal_0 X0 X1) \vee (r1_xxreal_0 X1 X0) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xxreal_0 X0) \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xreal_0 X2) \Rightarrow (\forall X3.(v1_xreal_0 X3) \Rightarrow (((r1_xxreal_0 \\ & X0 X1) \wedge ((r1_xxreal_0 k6_numbers X3) \wedge (r1_xxreal_0 X3 np_1))) \Rightarrow \\ & ((r1_xxreal_0 X2 X0) \vee (r1_xxreal_0 X0 (k2_xcmplx_0 (k3_xcmplx_0 \\ & (k6_xcmplx_0 np_1 X3) X1) (k3_xcmplx_0 X3 X2)))))) \end{aligned}$$