

t22_borsuk_5 (TMRWFaKpzPJezpwJxnsTGVM- mAwWjuC2ZZ5g)

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Let $v1_rat_1 : \iota \Rightarrow o$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k7_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow ((X0 \neq k6_numbers) \Rightarrow (X1 = k7_xcmplx_0 (k3_xcmplx_0 X1 X0) X0))) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.((v1_rat_1 X0) \wedge (v1_rat_1 X1)) \Rightarrow (v1_rat_1 (k7_xcmplx_0 X0 X1)) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcmplx_0 X0) \wedge (v1_xcmplx_0 X1)) \Rightarrow (k3_xcmplx_0 X0 X1 = k3_xcmplx_0 X1 X0) \quad (3)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xcmplx_0 X0) \quad (4)$$

Assume the following.

$$\forall X0.(v1_rat_1 X0) \Rightarrow (v1_xreal_0 X0) \quad (5)$$

Theorem 1

$$\forall X0.(v1_rat_1 X0) \Rightarrow (\forall X1.((v1_xreal_0 X1) \wedge (\neg v1_rat_1 X1)) \Rightarrow (\neg (X0 \neq k6_numbers) \wedge (v1_rat_1 (k3_xcmplx_0 X0 X1))))$$