

t198_xreal_1

(TMTyaJM79qofXsxjoqTqPtJCMj6yqpCF93S)

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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 $k6_numbers : \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $k7_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow ((r1_xxreal_0 X0 (k4_xcmplx_0 X1)) \Rightarrow (r1_xxreal_0 X1 (k4_xcmplx_0 X0)))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\neg(\neg r1_xxreal_0 X0 k6_numbers) \wedge ((\neg r1_xxreal_0 X1 (k4_xcmplx_0 X0)) \wedge (r1_xxreal_0 (k7_xcmplx_0 X1 X0) (k4_xcmplx_0 np_1)))))) \quad (2)$$

Theorem 1

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\neg(\neg r1_xxreal_0 X0 k6_numbers) \wedge ((\neg r1_xxreal_0 X0 (k4_xcmplx_0 X1)) \wedge (r1_xxreal_0 (k7_xcmplx_0 X1 X0) (k4_xcmplx_0 np_1))))))$$