

t209_xreal_1 (TMb-
SqBEP8CpRfBj56ka2eGDuhFh8PWZYD9j)

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 $k7_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xreal_0 X2) \Rightarrow (\neg(\neg r1_xxreal_0 X0 k6_numbers) \wedge ((\neg r1_xxreal_0 \\ & (k3_xcmplx_0 X2 X0) X1) \wedge (r1_xxreal_0 X2 (k7_xcmplx_0 X1 X0)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow ((\forall X2. \\ & (v1_xreal_0 X2) \Rightarrow (\neg(\neg r1_xxreal_0 X2 k6_numbers) \wedge ((\neg r1_xxreal_0 \\ & np_1 X2) \wedge (\neg r1_xxreal_0 (k3_xcmplx_0 X0 X2) X1)))) \Rightarrow (r1_xxreal_0 \\ & X0 X1))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow ((\forall X2. \\ & (v1_xreal_0 X2) \Rightarrow (\neg(\neg r1_xxreal_0 X2 k6_numbers) \wedge ((\neg r1_xxreal_0 \\ & np_1 X2) \wedge (\neg r1_xxreal_0 X0 (k7_xcmplx_0 X1 X2)))) \Rightarrow (r1_xxreal_0 \\ & X0 X1))) \end{aligned}$$