

t161_xreal_1
(TMJ7QnwBJGPBmC1ZvQq7WGYQ1j9DwudiA83)

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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 $np_1 : \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ 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.

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

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k3_xcmplx_0 np_1 X0 = X0) \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (((r1_xxreal_0 \\ & k6_numbers X0) \wedge (r1_xxreal_0 np_1 X1)) \Rightarrow (r1_xxreal_0 X0 (k3_xcmplx_0 \\ & X0 X1)))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\neg(\neg \\ & r1_xxreal_0 k6_numbers (k3_xcmplx_0 X0 X1)) \wedge ((\neg(\neg r1_xxreal_0 \\ & X0 k6_numbers) \wedge (\neg r1_xxreal_0 k6_numbers X1)) \wedge (\neg(\neg r1_xxreal_0 \\ & k6_numbers X0) \wedge (\neg r1_xxreal_0 X1 k6_numbers)))))) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xreal_0 X2) \Rightarrow (((r1_xxreal_0 X0 X1) \wedge (r1_xxreal_0 X1 X2)) \Rightarrow (\\ & r1_xxreal_0 X0 X2)))) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow ((X0 \neq k6_numbers) \Rightarrow (k7_xcmplx_0 X0 X0 = np_1)) \quad (6)$$

Assume the following.

$$r1_xreal_0 \ k6_numbers \ np_1 \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xreal_0 \ X0)\wedge(v1_xreal_0 \ X1))\Rightarrow(v1_xreal_0 \ (k7_xcmplx_0 \ X0 \ X1)) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xreal_0 \ X0)\wedge(v1_xreal_0 \ X1))\Rightarrow(v1_xreal_0 \ (k3_xcmplx_0 \ X0 \ X1)) \quad (9)$$

Assume the following.

$$\forall X0.(v1_xreal_0 \ X0)\Rightarrow(v1_xcmplx_0 \ X0) \quad (10)$$

Theorem 1

$$\forall X0.(v1_xreal_0 \ X0)\Rightarrow(\forall X1.(v1_xreal_0 \ X1)\Rightarrow(\neg(\neg \ r1_xreal_0 \ X0 \ np_1)\wedge((r1_xreal_0 \ np_1 \ X1)\wedge(r1_xreal_0 \ (k3_xcmplx_0 \ X0 \ X1) \ np_1))))$$