

t57_xreal_1 (TMS-
drMM5xyY8Yzfu3LC3GQUkCCnRh6xL8uM)

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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 $k6_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow ((\forall X2. \\ & (v1_xreal_0 X2) \Rightarrow ((\neg r1_xxreal_0 X2 k6_numbers) \Rightarrow (r1_xxreal_0 \\ & X0 (k2_xcmplx_0 X1 X2)))) \Rightarrow (r1_xxreal_0 X0 X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xreal_0 X2) \Rightarrow ((r1_xxreal_0 (k6_xcmplx_0 X0 X1) X2) \Rightarrow (r1_xxreal_0 \\ & (k6_xcmplx_0 X0 X2) X1)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xreal_0 X2) \Rightarrow ((r1_xxreal_0 (k6_xcmplx_0 X0 X1) X2) \Rightarrow (r1_xxreal_0 \\ & X0 (k2_xcmplx_0 X1 X2)))))) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow ((\forall X2. \\ & (v1_xreal_0 X2) \Rightarrow ((\neg r1_xxreal_0 X2 k6_numbers) \Rightarrow (r1_xxreal_0 \\ & (k6_xcmplx_0 X0 X2) X1)))) \Rightarrow (r1_xxreal_0 X0 X1))) \end{aligned}$$