

t5_xxreal_3

(TMb5LMS3YY2YC8CmZNn3tiu0GhSTEmFXmgY)

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Let $k2_xxreal_3 : \iota \Rightarrow \iota$ be given. Let $k2_xxreal_0 : \iota$ be given. Let $k1_xxreal_0 : \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (k2_xxreal_3 (k2_xxreal_3 X0) = X0) \quad (1)$$

Assume the following.

$$v1_xxreal_0 k1_xxreal_0 \quad (2)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xreal_0 (k2_xxreal_3 X0)) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow ((\\ & (v1_xreal_0 X0) \Rightarrow ((X1 = k2_xxreal_3 X0) \Leftrightarrow (\exists X2.(v1_xcmplx_0 \\ & X2) \wedge ((X0 = X2) \wedge (X1 = k4_xcmplx_0 X2)))))) \wedge (((X0 = k1_xxreal_0) \Rightarrow \\ & ((X1 = k2_xxreal_3 X0) \Leftrightarrow (X1 = k2_xxreal_0))) \wedge (\neg(\neg v1_xreal_0 X0) \wedge \\ & ((X0 \neq k1_xxreal_0) \wedge (\neg(X1 = k2_xxreal_3 X0) \Leftrightarrow (X1 = k1_xxreal_0)))))) \end{aligned} \quad (4)$$

Theorem 1 $k2_xxreal_3 k2_xxreal_0 = k1_xxreal_0$.