t63_xreal_1 (TMLR-mDZMRr3iLmm6H4uGS7vbpptN97ZFqJ6)

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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 $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k4\_xcmplx\_0 : \iota \Rightarrow \iota$ be given. Let $np\_\_0 : \iota$ be given. Let $v3\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $v2\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $c7\_\_xreal\_0 : \iota$ be given. Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$k2\_xcmplx\_0\ np\_\_1\ (k4\_xcmplx\_0\ np\_\_1) = np\_\_0 \tag{1}$$

Assume the following.

$$k2\_xcmplx\_0\ np\_\_1\ (k4\_xcmplx\_0\ np\_\_1) = k6\_numbers \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0\ X0) \wedge (v1\_xreal\_0\ X1)) \Rightarrow (v1\_xreal\_0\ (k3\_xcmplx\_0\ X0\ X1)) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v3\_xxreal\_0\ X0) \wedge (v1\_xreal\_0\ X0)) \wedge ((\neg v3\_xxreal\_0\ X1) \wedge (v1\_xreal\_0\ X1))) \Rightarrow (\neg v3\_xxreal\_0\ (k3\_xcmplx\_0\ X0\ X1)) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v2\_xxreal\_0\ X0) \wedge (v1\_xreal\_0\ X0)) \wedge ((\neg v2\_xxreal\_0\ X1) \wedge (v1\_xreal\_0\ X1))) \Rightarrow (\neg v3\_xxreal\_0\ (k3\_xcmplx\_0\ X0\ X1)) \tag{5}$$

Assume the following.

$$c7\_\_xreal\_0 = k6\_numbers \tag{6}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow ((v3\_xxreal\_0\ X0) \Leftrightarrow (\neg r1\_xxreal\_0\ k6\_numbers\ X0)) \tag{7}$$

Assume the following.

$$\forall X0.((v1\_xxreal\_0\ X0)\wedge(v3\_xxreal\_0\ X0))\Rightarrow((\neg v1\_xboole\_0\ X0)\wedge((v1\_xxreal\_0\ X0)\wedge(\neg v2\_xxreal\_0\ X0))) \tag{8}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xxreal\_0\ X0) \tag{9}$$

Theorem 1

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(r1\_xxreal\_0\ k6\_numbers\ (k3\_xcmplx\_0\ X0\ X0))$$