t92_xreal_1 (TMNGetTQvYDDNRBd-cMDitn4NSjeQN9dwuy2)

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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 $k5\_xcmplx\_0 : \iota \Rightarrow \iota$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\neg(\neg r1\_xxreal\_0\ k6\_numbers\ X0) \wedge ((\neg r1\_xxreal\_0\ X0\ X1) \wedge (r1\_xxreal\_0\ (k5\_xcmplx\_0\ X1)\ (k5\_xcmplx\_0\ X0))))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (k5\_xcmplx\_0\ (k5\_xcmplx\_0\ X0) = X0) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow ((v1\_xcmplx\_0\ (k5\_xcmplx\_0\ X0)) \wedge (v1\_xreal\_0\ (k5\_xcmplx\_0\ X0))) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (v1\_xcmplx\_0\ X0) \tag{4}$$

Theorem 1

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\neg(\neg r1\_xxreal\_0\ k6\_numbers\ (k5\_xcmplx\_0\ X0)) \wedge ((\neg r1\_xxreal\_0\ (k5\_xcmplx\_0\ X0)\ (k5\_xcmplx\_0\ X1)) \wedge (r1\_xxreal\_0\ X1\ X0)))))$$