

t90\_xreal\_1

(TMQP4YTMACZ5CjxxDVQsZMqTNfHv5Foajpg)

October 27, 2020

Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_xcmplx\_0 : \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow ((r1\_xxreal\_0 X1 X0) \Rightarrow ((r1\_xxreal\_0 k6\_numbers X0) \vee (r1\_xxreal\_0 (k5\_xcmplx\_0 X0) (k5\_xcmplx\_0 X1)))))) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (k5\_xcmplx\_0 (k5\_xcmplx\_0 X0) = X0) \quad (2)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow ((v1\_xcmplx\_0 (k5\_xcmplx\_0 X0)) \wedge (v1\_xreal\_0 (k5\_xcmplx\_0 X0))) \quad (3)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (v1\_xcmplx\_0 X0) \quad (4)$$

**Theorem 1**

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