

t200\_xreal\_1

(TMG4DpV4fTmuLT5dqQQNER625i9EAGeju2j)

October 27, 2020

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  $k4\_xcmplx\_0 : \iota \Rightarrow \iota$  be given. Let  $k7\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow ((r1\_xxreal\_0 (k4\_xcmplx\_0 X0) X1) \Rightarrow (r1\_xxreal\_0 (k4\_xcmplx\_0 X1) X0))) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (\neg(\neg r1\_xxreal\_0 k6\_numbers X0) \wedge ((\neg r1\_xxreal\_0 (k4\_xcmplx\_0 X0) X1) \wedge (r1\_xxreal\_0 (k7\_xcmplx\_0 X1 X0) (k4\_xcmplx\_0 np\_1)))))) \quad (2)$$

**Theorem 1**

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (\neg(\neg r1\_xxreal\_0 k6\_numbers X0) \wedge ((\neg r1\_xxreal\_0 (k4\_xcmplx\_0 X1) X0) \wedge (r1\_xxreal\_0 (k7\_xcmplx\_0 X1 X0) (k4\_xcmplx\_0 np\_1))))))$$