

t138\_xreal\_1

(TMa6xX93QnQAWeot6L9VpeDLJvXZPBGJrGV)

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  $k7\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v3\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $v2\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. ((v1\_xreal\_0 X0) \wedge (v1\_xreal\_0 X1)) \Rightarrow (v1\_xreal\_0 (k7\_xcmplx\_0 X0 X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (((\neg v3\_xxreal\_0 X0) \wedge (v1\_xreal\_0 X0)) \wedge ((\neg v2\_xxreal\_0 X1) \wedge (v1\_xreal\_0 X1))) \Rightarrow (\neg v2\_xxreal\_0 (k7\_xcmplx\_0 X1 X0)) \quad (2)$$

Assume the following.

$$\forall X0. (v1\_xxreal\_0 X0) \Rightarrow ((v3\_xxreal\_0 X0) \Leftrightarrow (\neg r1\_xxreal\_0 k6\_numbers X0)) \quad (3)$$

Assume the following.

$$\forall X0. (v1\_xxreal\_0 X0) \Rightarrow ((v2\_xxreal\_0 X0) \Leftrightarrow (\neg r1\_xxreal\_0 X0 k6\_numbers)) \quad (4)$$

Assume the following.

$$\forall X0. (v1\_xreal\_0 X0) \Rightarrow (v1\_xxreal\_0 X0) \quad (5)$$

**Theorem 1**

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