

t232\_xreal\_1 (TMTDi-  
jagF6SVcnU9Tem3zMQT9Hyk73QthK3)

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Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xreal\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  be given. Let  $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (k6\_xcmplx\_0 X0 X0 = k6\_numbers) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (((r1\_xxreal\_0 \\ k6\_numbers (k6\_xcmplx\_0 X0 X1)) \Rightarrow (k1\_xreal\_0 X0 X1 = k6\_xcmplx\_0 \\ X0 X1)) \wedge ((\neg r1\_xxreal\_0 k6\_numbers (k6\_xcmplx\_0 X0 X1)) \Rightarrow (k1\_xreal\_0 \\ X0 X1 = k6\_numbers)))) \end{aligned} \quad (2)$$

Assume the following.

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

**Theorem 1**  $\forall X0.(v1\_xreal\_0 X0) \Rightarrow (k1\_xreal\_0 X0 X0 = k6\_numbers)$ .