

t3\_toprealb  
(TMQkRm6ChBZoco2QgVsCqyVdy6XG2b2Bsdm)

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Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k1\_toprealb : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_numbers : \iota$  be given. Let  $k2\_rcomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (k1\_toprealb \\ & X0 X1 = ReplSep (toset (\lambda X2 : \iota.m1\_subset\_1 X2 k4\_numbers)) \\ & (\lambda X2 : \iota.True) (\lambda X2 : \iota.k2\_rcomp\_1 (k2\_xcmplx\_0 X0 X2) \\ & (k2\_xcmplx\_0 X1 X2)))) \end{aligned} \quad (1)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (\forall X2. \\ & (X2 \in k1\_toprealb X0 X1) \Leftrightarrow (\exists X3.(m1\_subset\_1 X3 k4\_numbers) \wedge \\ & (X2 = k2\_rcomp\_1 (k2\_xcmplx\_0 X0 X3) (k2\_xcmplx\_0 X1 X3)))))) \end{aligned}$$