

# l28\_topreal2 (TMVN- rnd4LorAbVxHuxAEyrHmXqsAvwZ8GLw)

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Let  $k19\_euclid : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k15\_euclid : \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $k17\_euclid : \iota \Rightarrow \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k18\_euclid : \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $np\_0 : \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$v1\_xboole\_0 \ np\_0 \tag{1}$$

Assume the following.

$$r1\_xxreal\_0 \ np\_0 \ np\_1 \tag{2}$$

Assume the following.

$$r1\_xxreal\_0 \ np\_0 \ np\_0 \tag{3}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{4}$$

Assume the following.

$$\exists X0.(v1\_xboole\_0 \ X0) \wedge ((v1\_xcmplx\_0 \ X0) \wedge ((v1\_xxreal\_0 \ X0) \wedge (v1\_xreal\_0 \ X0))) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0 \ X0) \Rightarrow (X0 = k1\_xboole\_0) \tag{6}$$

Assume the following.

$$k18\_euclid \ (k19\_euclid \ k6\_numbers \ k6\_numbers) = k6\_numbers \tag{7}$$

Assume the following.

$$k17\_euclid \ (k19\_euclid \ k6\_numbers \ k6\_numbers) = k6\_numbers \tag{8}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0 X0)\wedge(v1\_xreal\_0 X1))\Rightarrow(m1\_subset\_1 (k19\_euclid X0 X1) (u1\_struct\_0 (k15\_euclid np\_2))) \quad (9)$$

Assume the following.

$$k1\_xboole\_0 = the (\lambda X0 : \iota.v1\_xboole\_0 X0) \quad (10)$$

**Theorem 1**

$$\begin{aligned} & k19\_euclid k6\_numbers k6\_numbers \in ReplSep (toset (\lambda X0 : \iota. \\ & \quad m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2)))) (\lambda X0 : \iota. \\ & \neg(\neg(k17\_euclid X0 = k6\_numbers)\wedge((r1\_xxreal\_0 (k18\_euclid X0) \\ & np\_1)\wedge(r1\_xxreal\_0 k6\_numbers (k18\_euclid X0))))\wedge((\neg(r1\_xxreal\_0 \\ & (k17\_euclid X0) np\_1)\wedge((r1\_xxreal\_0 k6\_numbers (k17\_euclid \\ & X0))\wedge(k18\_euclid X0 = np\_1)))\wedge((\neg(r1\_xxreal\_0 (k17\_euclid X0) \\ & np\_1)\wedge((r1\_xxreal\_0 k6\_numbers (k17\_euclid X0))\wedge(k18\_euclid \\ & X0 = k6\_numbers))\wedge(\neg(k17\_euclid X0 = np\_1)\wedge((r1\_xxreal\_0 (k18\_euclid \\ & X0) np\_1)\wedge(r1\_xxreal\_0 k6\_numbers (k18\_euclid X0))))))) (\lambda X0 : \\ & \quad \iota.X0) \end{aligned}$$