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(TMazFhN8AJYN21zprneCaPTyDZWjNBdDrE2)

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Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k19\_euclid : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k1\_sppol\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_real\_1 : \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $np\_3 : \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k17\_euclid : \iota \Rightarrow \iota$  be given. Let  $k18\_euclid : \iota \Rightarrow \iota$  be given. Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_0 : \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v3\_xxreal\_0 : \iota \Rightarrow o$  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  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $c4\_toprealb : \iota$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $v2\_xxreal\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (X0 = k1\_xboole\_0) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow ((k17\_euclid (k19\_euclid X0 X1) = X0) \wedge (k18\_euclid (k19\_euclid X0 X1) = X1))) \quad (2)$$

Assume the following.

$$(m2\_subset\_1 np\_0 k1\_numbers k5\_numbers) \wedge ((m1\_subset\_1 np\_0 k5\_numbers) \wedge (m1\_subset\_1 np\_0 k1\_numbers)) \quad (3)$$

Assume the following.

$$v1\_xboole\_0 np\_0 \quad (4)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (5)$$

Assume the following.

$$(v1\_xreal\_0 (k1\_real\_1 np\_1)) \wedge (v3\_xxreal\_0 (k1\_real\_1 np\_1)) \quad (6)$$

Assume the following.

$$\begin{aligned}
& k1\_sppol\_2 (k1\_real\_1 \ np\_1) \ np\_1 (k1\_real\_1 \ np\_3) \ np\_3 = ReplSep \\
& (toset (\lambda X0 : \iota.m1\_subset\_1 \ X0 (u1\_struct\_0 (k15\_euclid \ np\_2)))) \\
& (\lambda X0 : \iota.\neg(\neg(k17\_euclid \ X0 = k1\_real\_1 \ np\_1) \wedge ((r1\_xxreal\_0 \\
& (k18\_euclid \ X0) \ np\_3) \wedge (r1\_xxreal\_0 (k1\_real\_1 \ np\_3) (k18\_euclid \\
& X0)))) \wedge ((\neg(r1\_xxreal\_0 (k17\_euclid \ X0) \ np\_1) \wedge ((r1\_xxreal\_0 \\
& (k1\_real\_1 \ np\_1) (k17\_euclid \ X0)) \wedge (k18\_euclid \ X0 = np\_3))) \wedge \\
& ((\neg(r1\_xxreal\_0 (k17\_euclid \ X0) \ np\_1) \wedge ((r1\_xxreal\_0 (k1\_real\_1 \\
& np\_1) (k17\_euclid \ X0)) \wedge (k18\_euclid \ X0 = k1\_real\_1 \ np\_3))) \wedge \\
& \neg(k17\_euclid \ X0 = np\_1) \wedge ((r1\_xxreal\_0 (k18\_euclid \ X0) \ np\_3) \wedge \\
& (r1\_xxreal\_0 (k1\_real\_1 \ np\_3) (k18\_euclid \ X0)))))) (\lambda X0 : \\
& \iota.X0)
\end{aligned} \tag{7}$$

Assume the following.

$$c4\_toprealb = k1\_real\_1 \ np\_1 \tag{8}$$

Assume the following.

$$\forall X0.((v1\_xxreal\_0 \ X0) \wedge (v3\_xxreal\_0 \ X0)) \Rightarrow ((\neg v1\_xboole\_0 \ X0) \wedge ((v1\_xxreal\_0 \ X0) \wedge (\neg v2\_xxreal\_0 \ X0))) \tag{9}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 \ X0) \Rightarrow (v1\_xxreal\_0 \ X0) \tag{10}$$

Assume the following.

$$\forall X0.(m1\_subset\_1 \ X0 \ k1\_numbers) \Rightarrow (v1\_xreal\_0 \ X0) \tag{11}$$

**Theorem 1**

$$\begin{aligned}
& \forall X0.(v1\_xreal\_0 \ X0) \Rightarrow (\neg(k19\_euclid \ k6\_numbers \ X0 \in k1\_sppol\_2 \\
& (k1\_real\_1 \ np\_1) \ np\_1 (k1\_real\_1 \ np\_3) \ np\_3) \wedge ((X0 \neq k1\_real\_1 \\
& np\_3) \wedge (X0 \neq np\_3)))
\end{aligned}$$