

t28\_jordan12 (TMbD-  
KHQhFw5h7fXE9j1DkX4kGwjfWEZDW6b)

October 27, 2020

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  $k1\_rltopsp1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k17\_euclid : \iota \Rightarrow \iota$  be given. Let  $k18\_euclid : \iota \Rightarrow \iota$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k19\_euclid : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v2\_sppol\_1 : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_sppol\_1 : \iota \Rightarrow o$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $v3\_membered : \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $v2\_membered : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned}
& \forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (\forall X2. \\
& (v1\_xreal\_0 X2) \Rightarrow ((r1\_xxreal\_0 X0 X1) \Rightarrow (ReplSep (toset (\lambda X3 : \\
& \iota.m1\_subset\_1 X3 (u1\_struct\_0 (k15\_euclid np\_2)))) (\lambda X3 : \\
& \iota.(k17\_euclid X3 = X2) \wedge ((r1\_xxreal\_0 X0 (k18\_euclid X3)) \wedge (r1\_xxreal\_0 \\
& (k18\_euclid X3) X1)))) (\lambda X3 : \iota.X3) = k1\_rltopsp1 (k15\_euclid \\
& np\_2) (k19\_euclid X2 X0) (k19\_euclid X2 X1))))))
\end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (((r1\_xxreal\_0 (k17\_euclid X0) (k17\_euclid X1)) \wedge ((r1\_xxreal\_0 \\
& (k17\_euclid X1) (k17\_euclid X2)) \wedge ((k18\_euclid X0 = k18\_euclid \\
& X1) \wedge (k18\_euclid X1 = k18\_euclid X2)))) \Rightarrow (X1 \in k1\_rltopsp1 (k15\_euclid \\
& np\_2) X0 X2))))
\end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (((k17\_euclid X0 = k17\_euclid X1) \wedge ((k17\_euclid X1 = k17\_euclid \\
& X2) \wedge ((r1\_xxreal\_0 (k18\_euclid X0) (k18\_euclid X1)) \wedge (r1\_xxreal\_0 \\
& (k18\_euclid X1) (k18\_euclid X2)))))) \Rightarrow (X1 \in k1\_rltopsp1 (k15\_euclid \\
& np\_2) X0 X2)))
\end{aligned} \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.\neg(X0 \in X1) \wedge (v1\_xboole\_0 X1) \tag{4}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (((k17\_euclid X0 = k17\_euclid X1) \wedge (k18\_euclid X0 = k18\_euclid X1)) \Rightarrow \\
& (X0 = X1)))
\end{aligned} \tag{5}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (((X0 \in k1\_rltopsp1 (k15\_euclid np\_2) X1 X2) \wedge (k18\_euclid X1 = k18\_euclid \\
& X2)) \Rightarrow (k18\_euclid X0 = k18\_euclid X2))))
\end{aligned} \tag{6}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X3.(m1\_subset\_1 X3 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (((v2\_sppol\_1 (k1\_rltopsp1 (k15\_euclid np\_2) X0 X1)) \wedge ((v2\_sppol\_1 \\
& (k1\_rltopsp1 (k15\_euclid np\_2) X2 X3) \wedge ((k17\_euclid X0 = k17\_euclid \\
& X2) \wedge ((r1\_xxreal\_0 (k18\_euclid X0) (k18\_euclid X2)) \wedge ((r1\_xxreal\_0 \\
& (k18\_euclid X2) (k18\_euclid X3)) \wedge (r1\_xxreal\_0 (k18\_euclid X3) \\
& (k18\_euclid X1)))))) \Rightarrow (r1\_tarski (k1\_rltopsp1 (k15\_euclid np\_2) \\
& X2 X3) (k1\_rltopsp1 (k15\_euclid np\_2) X0 X1))))))
\end{aligned} \tag{7}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (((X0 \in k1\_rltopsp1 (k15\_euclid np\_2) X1 X2) \wedge (k17\_euclid X1 = k17\_euclid \\
& X2)) \Rightarrow (k17\_euclid X0 = k17\_euclid X2))))
\end{aligned} \tag{8}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (X0 = k19\_euclid (k17\_euclid X0) (k18\_euclid X0)) \end{aligned} \quad (9)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (((r1\_xxreal\_0 (k18\_euclid X0) (k18\_euclid X1)) \wedge (X2 \in k1\_rltopsp1 \\ & (k15\_euclid np\_2) X0 X1)) \Rightarrow ((r1\_xxreal\_0 (k18\_euclid X0) (k18\_euclid \\ & X2)) \wedge (r1\_xxreal\_0 (k18\_euclid X2) (k18\_euclid X1)))))) \end{aligned} \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((X0 \in X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 X2))) \Rightarrow (m1\_subset\_1 X0 X2) \quad (11)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (((v2\_sppol\_1 (k1\_rltopsp1 (k15\_euclid np\_2) X0 X1)) \wedge (X2 \in k1\_rltopsp1 \\ & (k15\_euclid np\_2) X0 X1)) \Rightarrow (k17\_euclid X0 = k17\_euclid X2)))) \end{aligned} \quad (12)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (\forall X3.(m1\_subset\_1 X3 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (\neg(X0 \in k1\_rltopsp1 (k15\_euclid np\_2) X1 X2) \wedge ((X0 \in k1\_rltopsp1 \\ & (k15\_euclid np\_2) X1 X3) \wedge ((X1 \neq X0) \wedge ((\neg X2 \in k1\_rltopsp1 (k15\_euclid \\ & np\_2) X1 X3) \wedge (\neg X3 \in k1\_rltopsp1 (k15\_euclid np\_2) X1 X2)))))))) \end{aligned} \quad (13)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (((v1\_sppol\_1 (k1\_rltopsp1 (k15\_euclid np\_2) X0 X1)) \wedge (X2 \in k1\_rltopsp1 \\ & (k15\_euclid np\_2) X0 X1)) \Rightarrow (k18\_euclid X0 = k18\_euclid X2)))) \end{aligned} \quad (14)$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (((r1\_xxreal\_0 (k17\_euclid X0) (k17\_euclid X1)) \wedge (X2 \in k1\_rltopsp1 \\
& (k15\_euclid np\_2) X0 X1)) \Rightarrow ((r1\_xxreal\_0 (k17\_euclid X0) (k17\_euclid \\
& X2)) \wedge (r1\_xxreal\_0 (k17\_euclid X2) (k17\_euclid X1))))))
\end{aligned} \tag{15}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1 X0 (k1\_zfmisc\_1 X1)) \Leftrightarrow (r1\_tarski X0 X1) \tag{16}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow (\forall X2. \\
& (v1\_xxreal\_0 X2) \Rightarrow (((r1\_xxreal\_0 X0 X1) \wedge (r1\_xxreal\_0 X1 X2)) \Rightarrow \\
& (r1\_xxreal\_0 X0 X2))))
\end{aligned} \tag{17}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1 X0 X1) \Rightarrow ((v1\_xboole\_0 X1) \vee (X0 \in X1)) \tag{18}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\neg(\neg X0 \in k1\_rltopsp1 (k15\_euclid np\_2) X1 X2) \wedge ((k17\_euclid X1 = \\
& k17\_euclid X2) \wedge ((k17\_euclid X2 = k17\_euclid X0) \wedge (\neg X1 \in k1\_rltopsp1 \\
& (k15\_euclid np\_2) X0 X2) \wedge (\neg X2 \in k1\_rltopsp1 (k15\_euclid np\_2) \\
& X0 X1))))))
\end{aligned} \tag{19}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\neg(\neg X0 \in k1\_rltopsp1 (k15\_euclid np\_2) X1 X2) \wedge ((k18\_euclid X1 = \\
& k18\_euclid X2) \wedge ((k18\_euclid X2 = k18\_euclid X0) \wedge (\neg X1 \in k1\_rltopsp1 \\
& (k15\_euclid np\_2) X0 X2) \wedge (\neg X2 \in k1\_rltopsp1 (k15\_euclid np\_2) \\
& X0 X1))))))
\end{aligned} \tag{20}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\neg(X1 \in k1\_rltopsp1 (k15\_euclid np\_2) X0 X2) \wedge ((r1\_xxreal\_0 (k18\_euclid \\
& X1) (k18\_euclid X0)) \wedge ((r1\_xxreal\_0 (k18\_euclid X1) (k18\_euclid \\
& X2)) \wedge ((X0 \neq X1) \wedge ((X1 \neq X2) \wedge (\neg(k18\_euclid X0 = k18\_euclid X1) \wedge (k18\_euclid \\
& X2 = k18\_euclid X1))))))))))
\end{aligned} \tag{21}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\neg(X1 \in k1\_rltopsp1 (k15\_euclid np\_2) X0 X2) \wedge ((r1\_xxreal\_0 (k17\_euclid \\
& X1) (k17\_euclid X0)) \wedge ((r1\_xxreal\_0 (k17\_euclid X1) (k17\_euclid \\
& X2)) \wedge ((X0 \neq X1) \wedge ((X1 \neq X2) \wedge (\neg(k17\_euclid X0 = k17\_euclid X1) \wedge (k17\_euclid \\
& X2 = k17\_euclid X1))))))))))
\end{aligned} \tag{22}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\neg(X1 \in k1\_rltopsp1 (k15\_euclid np\_2) X0 X2) \wedge ((r1\_xxreal\_0 (k18\_euclid \\
& X0) (k18\_euclid X1)) \wedge ((r1\_xxreal\_0 (k18\_euclid X2) (k18\_euclid \\
& X1)) \wedge ((X0 \neq X1) \wedge ((X1 \neq X2) \wedge (\neg(k18\_euclid X0 = k18\_euclid X1) \wedge (k18\_euclid \\
& X2 = k18\_euclid X1))))))))))
\end{aligned} \tag{23}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\neg(X1 \in k1\_rltopsp1 (k15\_euclid np\_2) X0 X2) \wedge ((r1\_xxreal\_0 (k17\_euclid \\
& X0) (k17\_euclid X1)) \wedge ((r1\_xxreal\_0 (k17\_euclid X2) (k17\_euclid \\
& X1)) \wedge ((X0 \neq X1) \wedge ((X1 \neq X2) \wedge (\neg(k17\_euclid X0 = k17\_euclid X1) \wedge (k17\_euclid \\
& X2 = k17\_euclid X1))))))))))
\end{aligned} \tag{24}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& ((k17\_euclid X0 = k17\_euclid X1) \Leftrightarrow (v2\_sppol\_1 (k1\_rltopsp1 (k15\_euclid \\
& np\_2) X0 X1))))
\end{aligned} \tag{25}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & ((k18\_euclid X0 = k18\_euclid X1) \Leftrightarrow (v1\_sppol\_1 (k1\_rltopsp1 (k15\_euclid \\ & \quad np\_2) X0 X1)))) \end{aligned} \quad (26)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (\forall X2.(v1\_xreal\_0 X2) \Rightarrow (\forall X3. \\ & (v1\_xreal\_0 X3) \Rightarrow ((X0 \in k1\_rltopsp1 (k15\_euclid np\_2) (k19\_euclid \\ & \quad X1 X2) (k19\_euclid X3 X2)) \Rightarrow (k18\_euclid X0 = X2)))))) \end{aligned} \quad (27)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (\forall X2.(v1\_xreal\_0 X2) \Rightarrow (\forall X3. \\ & (v1\_xreal\_0 X3) \Rightarrow ((X0 \in k1\_rltopsp1 (k15\_euclid np\_2) (k19\_euclid \\ & \quad X1 X2) (k19\_euclid X1 X3)) \Rightarrow (k17\_euclid X0 = X1)))))) \end{aligned} \quad (28)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (\forall X2. \\ & (v1\_xreal\_0 X2) \Rightarrow ((r1\_xxreal\_0 X0 X1) \Rightarrow (ReplSep (toset (\lambda X3 : \\ & \quad \iota.m1\_subset\_1 X3 (u1\_struct\_0 (k15\_euclid np\_2)))) (\lambda X3 : \\ & \quad \iota.(k18\_euclid X3 = X2) \wedge ((r1\_xxreal\_0 X0 (k17\_euclid X3)) \wedge (r1\_xxreal\_0 \\ & \quad (k17\_euclid X3) X1))) (\lambda X3 : \iota.X3) = k1\_rltopsp1 (k15\_euclid \\ & \quad np\_2) (k19\_euclid X0 X2) (k19\_euclid X1 X2)))))) \end{aligned} \quad (29)$$

Assume the following.

$$v3\_membered k1\_numbers \quad (30)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow (m1\_subset\_1 (k18\_euclid X0) k1\_numbers) \quad (31)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow (m1\_subset\_1 (k17\_euclid X0) k1\_numbers) \quad (32)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0 X0) \wedge (v1\_xxreal\_0 X1)) \Rightarrow ((r1\_xxreal\_0 X0 X1) \vee (r1\_xxreal\_0 X1 X0)) \quad (33)$$

Assume the following.

$$\forall X0.(v3\_membered\ X0)\Rightarrow(v2\_membered\ X0) \quad (34)$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(v1\_xreal\_0\ X0) \quad (35)$$

Assume the following.

$$\forall X0.(v2\_membered\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ X0)\Rightarrow(v1\_xreal\_0\ X1)) \quad (36)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_2)))\Rightarrow \\ & (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k15\_euclid\ np\_2)))\Rightarrow \\ & (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ (k15\_euclid\ np\_2)))\Rightarrow \\ & (\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ (k15\_euclid\ np\_2)))\Rightarrow \\ & (\neg(\neg X3 \in k1\_rltopsp1\ (k15\_euclid\ np\_2)\ X1\ X2)\wedge((X0 \in k1\_rltopsp1 \\ & (k15\_euclid\ np\_2)\ X1\ X2)\wedge((X0\neq X1)\wedge((X0\neq X2)\wedge(((k17\_euclid \\ & X1 = k17\_euclid\ X2)\wedge(k17\_euclid\ X2 = k17\_euclid\ X3))\vee((k18\_euclid \\ & X1 = k18\_euclid\ X2)\wedge(k18\_euclid\ X2 = k18\_euclid\ X3))))\wedge((\neg X1 \in k1\_rltopsp1 \\ & (k15\_euclid\ np\_2)\ X3\ X0)\wedge(\neg X2 \in k1\_rltopsp1\ (k15\_euclid\ np\_2) \\ & X3\ X0)))))))))) \end{aligned}$$