

# l21\_sprect\_5 (TMHcN- mEXBZkRzp7dZ2kHF92BHuc9A2AX8rB)

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Let  $v3\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v1\_finseq\_6 : \iota \Rightarrow \iota \Rightarrow o$  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  $v1\_topreal1 : \iota \Rightarrow o$  be given. Let  $v2\_topreal1 : \iota \Rightarrow o$  be given. Let  $v1\_goboard5 : \iota \Rightarrow o$  be given. Let  $v2\_goboard5 : \iota \Rightarrow o$  be given. Let  $v1\_sprect\_2 : \iota \Rightarrow o$  be given. Let  $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k7\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k20\_pscomp\_1 : \iota \Rightarrow \iota$  be given. Let  $k3\_topreal1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_finseq\_4 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k24\_pscomp\_1 : \iota \Rightarrow \iota$  be given. Let  $k22\_pscomp\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v1\_xboole\_0 X0) \wedge ((\neg v3\_funct\_1 X0) \wedge ((v1\_finseq\_6 \\ & X0 (u1\_struct\_0 (k15\_euclid np\_2))) \wedge ((v1\_topreal1 X0) \wedge ((v2\_topreal1 \\ & X0) \wedge ((v1\_goboard5 X0) \wedge ((v2\_goboard5 X0) \wedge ((v1\_sprect\_2 X0) \wedge \\ & (m2\_finseq\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2)))))))))) \Rightarrow ( \\ \neg & (k7\_partfun1 (u1\_struct\_0 (k15\_euclid np\_2)) X0 np\_1 = k20\_pscomp\_1 \\ & (k3\_topreal1 np\_2 X0)) \wedge (r1\_xxreal\_0 (k4\_finseq\_4 X0 (k24\_pscomp\_1 \\ & (k3\_topreal1 np\_2 X0))) (k4\_finseq\_4 X0 (k22\_pscomp\_1 (k3\_topreal1 \\ & np\_2 X0)))))) \end{aligned} \tag{1}$$

## Theorem 1

$$\begin{aligned} & \forall X0. ((\neg v3\_funct\_1 X0) \wedge ((\neg v1\_xboole\_0 X0) \wedge ((v1\_finseq\_6 \\ & X0 (u1\_struct\_0 (k15\_euclid np\_2))) \wedge ((v1\_topreal1 X0) \wedge ((v2\_topreal1 \\ & X0) \wedge ((v1\_goboard5 X0) \wedge ((v2\_goboard5 X0) \wedge ((v1\_sprect\_2 X0) \wedge \\ & (m2\_finseq\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2)))))))))) \Rightarrow ( \\ \neg & (k7\_partfun1 (u1\_struct\_0 (k15\_euclid np\_2)) X0 np\_1 = k20\_pscomp\_1 \\ & (k3\_topreal1 np\_2 X0)) \wedge (r1\_xxreal\_0 (k4\_finseq\_4 X0 (k24\_pscomp\_1 \\ & (k3\_topreal1 np\_2 X0))) (k4\_finseq\_4 X0 (k22\_pscomp\_1 (k3\_topreal1 \\ & np\_2 X0)))))) \end{aligned}$$