

# l12\_robbins4 (TMYCvfKRNuhfVEGsaTLNCaq- sUVD7Hn8DR5c)

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Let  $r1\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_3 : \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.(r1\_tarski X0 (k4\_xboole\_0 X1 X2)) \Rightarrow ((r1\_tarski X0 X1) \wedge (r1\_xboole\_0 X0 X2)) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.k6\_subset\_1 X0 X1 = k4\_xboole\_0 X0 X1 \quad (2)$$

Assume the following.

$$r1\_tarski (k6\_subset\_1 np\_3 np\_2) (k6\_subset\_1 np\_3 np\_1) \quad (3)$$

**Theorem 1**  $r1\_xboole\_0 (k6\_subset\_1 np\_3 np\_2) np\_1$ .