

t344\_xxreal\_1

(TML8nRVTpkzHAjWxsdy72wuZ4KBmv3Q81kz)

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Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xxreal\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_xxreal\_0 : \iota$  be given. Let  $k2\_xxreal\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_tarSKI : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow (\forall X2. \\ & (v1\_xxreal\_0 X2) \Rightarrow ((r1\_xxreal\_0 X0 X1) \Rightarrow (k6\_subset\_1 (k1\_xxreal\_1 \\ & k2\_xxreal\_0 X1) (k2\_xxreal\_1 X0 X2) = k2\_xboole\_0 (k2\_xxreal\_1 \\ & k2\_xxreal\_0 X0) (k1\_xxreal\_1 X2 X1)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (k1\_xxreal\_1 X0 X0 = k1\_tarSKI X0) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.k2\_xboole\_0 X0 X1 = k2\_xboole\_0 X1 X0 \quad (3)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow (( \\ & r1\_xxreal\_0 X0 X1) \Rightarrow (k6\_subset\_1 (k1\_xxreal\_1 k2\_xxreal\_0 X1) \\ & (k2\_xxreal\_1 X0 X1) = k2\_xboole\_0 (k2\_xxreal\_1 k2\_xxreal\_0 X0) \\ & (k1\_tarSKI X1)))) \end{aligned}$$