

## t17\_random\_2

(TMXJW7oQM6Vp8zGTkt6pZSsEoekDqkPYhLW)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Let  $m2\_prob\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_random\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_seq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_random\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k11\_binop\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1\_subset\_1 (k1\_tarski X0) (k1\_zfmisc\_1 X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. k2\_zfmisc\_1 (k1\_tarski X0) (k1\_tarski X1) = k1\_tarski (k4\_tarski X0 X1) \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v1\_xboole\_0 X0) \wedge (v1\_finset\_1 X0)) \Rightarrow (\forall X1. \\ & ((\neg v1\_xboole\_0 X1) \wedge (v1\_finset\_1 X1)) \Rightarrow (\forall X2. (m2\_prob\_1 \\ & X2 X0 (k1\_random\_1 X0)) \Rightarrow (\forall X3. (m2\_prob\_1 X3 X1 (k1\_random\_1 \\ & X1)) \Rightarrow (\forall X4. ((\neg v1\_xboole\_0 X4) \wedge ((v1\_finset\_1 X4) \wedge (m1\_subset\_1 \\ & X4 (k1\_zfmisc\_1 X0)))) \Rightarrow (\forall X5. ((\neg v1\_xboole\_0 X5) \wedge ((v1\_finset\_1 \\ & X5) \wedge (m1\_subset\_1 X5 (k1\_zfmisc\_1 X1)))) \Rightarrow (k1\_seq\_1 (k2\_random\_2 \\ & X0 X1 X2 X3) (k2\_zfmisc\_1 X4 X5) = k11\_binop\_2 (k1\_seq\_1 X2 X4) (k1\_seq\_1 \\ & X3 X5)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0. \neg v1\_xboole\_0 (k1\_tarski X0) \quad (4)$$

Assume the following.

$$\forall X0. (v1\_finset\_1 X0) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)) \Rightarrow (v1\_finset\_1 X1)) \quad (5)$$

Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)) \Rightarrow (v1\_xboole\_0 X1)) \quad (6)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.((\neg v1\_xboole\_0 X0) \wedge (v1\_finset\_1 X0)) \Rightarrow (\forall X1. \\ & ((\neg v1\_xboole\_0 X1) \wedge (v1\_finset\_1 X1)) \Rightarrow (\forall X2.(m2\_prob\_1 \\ & X2 X0 (k1\_random\_1 X0)) \Rightarrow (\forall X3.(m2\_prob\_1 X3 X1 (k1\_random\_1 \\ & X1)) \Rightarrow (\forall X4.\forall X5.((X4 \in X0) \wedge (X5 \in X1)) \Rightarrow (k1\_seq\_1 (k2\_random\_2 \\ & X0 X1 X2 X3) (k1\_tarSKI (k4\_tarSKI X4 X5)) = k11\_binop\_2 (k1\_seq\_1 \\ & X2 (k1\_tarSKI X4)) (k1\_seq\_1 X3 (k1\_tarSKI X5))))))) \end{aligned}$$