t17_binari_4 (TMdJoo5EwnkkPx6wwqW8UGrpU3qikv2R8cy)

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Let $v1\_xboolean : \iota \Rightarrow o$ be given. Let $k5\_xboolean : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8\_margrel1 : \iota$ be given. Let $k2\_xboolean : \iota$ be given. Let $np\_\_1 : \iota$ be given. Assume the following.

$$\forall X0.(v1\_xboolean\ X0) \Rightarrow (k5\_xboolean\ X0\ k8\_margrel1 = k8\_margrel1) \tag{1}$$

Assume the following.

$$k8\_margrel1 = k2\_xboolean \tag{2}$$

Assume the following.

$$v1\_xboolean\ k2\_xboolean \tag{3}$$

Assume the following.

$$k2\_xboolean = np\_\_1 \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xboolean\ X0) \wedge (v1\_xboolean\ X1)) \Rightarrow (k5\_xboolean\ X0\ X1 = k5\_xboolean\ X1\ X0) \tag{5}$$

Theorem 1

$$\forall X0.(v1\_xboolean\ X0) \Rightarrow (k5\_xboolean\ k8\_margrel1\ X0 = k8\_margrel1)$$