

t47\_bvfunc\_1 (TM-  
MMrD2QoZ7fW9YZwzfMEeB4otcFqmWiT9H)

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Let  $v1\_xboolean : \iota \Rightarrow o$  be given. Let  $k8\_xboolean : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_xboolean : \iota \Rightarrow \iota$  be given. Let  $k8\_margrel1 : \iota$  be given. Let  $k7\_margrel1 : \iota$  be given. Let  $k2\_xboolean : \iota$  be given. Let  $np\_1 : \iota$  be given. Assume the following.

$$\forall X0.(v1\_xboolean X0) \Rightarrow (k8\_xboolean X0 (k3\_xboolean X0) = k2\_xboolean) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xboolean X0) \Rightarrow (((X0 = k7\_margrel1) \Rightarrow (k3\_xboolean X0 = k8\_margrel1)) \wedge ((k3\_xboolean X0 = k8\_margrel1) \Rightarrow (X0 = k7\_margrel1))) \wedge (((X0 = k8\_margrel1) \Rightarrow (k3\_xboolean X0 = k7\_margrel1)) \wedge ((k3\_xboolean X0 = k7\_margrel1) \Rightarrow (X0 = k8\_margrel1)))) \quad (2)$$

Assume the following.

$$k8\_margrel1 = k2\_xboolean \quad (3)$$

Assume the following.

$$v1\_xboolean k2\_xboolean \quad (4)$$

Assume the following.

$$k2\_xboolean = np\_1 \quad (5)$$

**Theorem 1**

$$\forall X0.(v1\_xboolean X0) \Rightarrow ((k8\_xboolean X0 (k3\_xboolean X0) = k8\_margrel1) \wedge (k3\_xboolean (k8\_xboolean X0 (k3\_xboolean X0)) = k7\_margrel1))$$