t50_bvfunc_1 (TMduvnvND-VAdK4dPdEJwQupm9rDP4qoMo8J)

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Let $v1\_xboolean : \iota \Rightarrow o$ be given. Let $k9\_xboolean : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8\_margrel1 : \iota$ be given. Let $k7\_margrel1 : \iota$ be given. Let $k6\_xboolean : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_xboolean : \iota$ be given. Let $k2\_xboolean : \iota$ be given. Assume the following.

$$\forall X0.(v1\_xboolean\ X0) \Rightarrow (\forall X1.(v1\_xboolean\ X1) \Rightarrow (k9\_xboolean\ X0\ (k6\_xboolean\ X0\ X1) = k1\_xboolean)) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xboolean\ X0) \Rightarrow (k6\_xboolean\ X0\ X0 = k2\_xboolean) \tag{2}$$

Assume the following.

$$k8\_margrel1 = k2\_xboolean \tag{3}$$

Assume the following.

$$k7\_margrel1 = k1\_xboolean \tag{4}$$

Assume the following.

$$v1\_xboolean\ k2\_xboolean \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xboolean\ X0) \wedge (v1\_xboolean\ X1)) \Rightarrow (k9\_xboolean\ X0\ X1 = k9\_xboolean\ X1\ X0) \tag{6}$$

Theorem 1

$$\forall X0.(v1\_xboolean\ X0) \Rightarrow (k9\_xboolean\ k8\_margrel1\ X0 = k7\_margrel1)$$