t13_margrel1 (TMWrRWmxgsQCs-DEw71co7tEt5EJpPj7HooN)

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Let $v1\_xboolean : \iota \Rightarrow o$ be given. Let $k4\_xboolean : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_margrel1 : \iota$ be given. Let $k8\_margrel1 : \iota$ be given. Let $k1\_xboolean : \iota$ be given. Let $k2\_xboolean : \iota$ be given. Assume the following.

$$\forall X0.(v1\_xboolean\ X0) \Rightarrow (\forall X1.(v1\_xboolean\ X1) \Rightarrow (((k4\_xboolean\ X0\ X1 = k8\_margrel1) \Rightarrow ((X0 = k8\_margrel1) \wedge (X1 = k8\_margrel1))) \wedge ((((X0 = k8\_margrel1) \wedge (X1 = k8\_margrel1)) \Rightarrow (k4\_xboolean\ X0\ X1 = k8\_margrel1)) \wedge ((\neg(k4\_xboolean\ X0\ X1 = k7\_margrel1) \wedge ((X0 \neq k7\_margrel1) \wedge (X1 \neq k7\_margrel1))) \wedge (((X0 = k7\_margrel1) \vee (X1 = k7\_margrel1)) \Rightarrow (k4\_xboolean\ X0\ X1 = k7\_margrel1)))))) \tag{1}$$

Assume the following.

$$k7\_margrel1 = k1\_xboolean \tag{2}$$

Assume the following.

$$\forall X0.(v1\_xboolean\ X0) \Leftrightarrow ((X0 = k1\_xboolean) \vee (X0 = k2\_xboolean)) \tag{3}$$

Theorem 1

$$\forall X0.(v1\_xboolean\ X0) \Rightarrow (k4\_xboolean\ k7\_margrel1\ X0 = k7\_margrel1)$$