

t14_margrel1 (TMRvqkHiGv- SoH49kLNjcBwDFXGySd41nTRw)

October 27, 2020

Let $v1_xboolean : \iota \Rightarrow o$ be given. Let $k4_xboolean : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_margrel1 : \iota$ be given. Let $k7_margrel1 : \iota$ be given. Let $k2_xboolean : \iota$ be given. Let $k1_xboolean : \iota$ be given. Let $np_1 : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xboolean X0) \Rightarrow (\forall X1.(v1_xboolean X1) \Rightarrow ((\\ & (k4_xboolean X0 X1 = k8_margrel1) \Rightarrow ((X0 = k8_margrel1) \wedge (X1 = k8_margrel1)))) \wedge \\ & (((X0 = k8_margrel1) \wedge (X1 = k8_margrel1)) \Rightarrow (k4_xboolean X0 X1 = \\ & k8_margrel1)) \wedge ((\neg(k4_xboolean X0 X1 = k7_margrel1) \wedge ((X0 \neq k7_margrel1) \wedge \\ & (X1 \neq k7_margrel1))) \wedge (((X0 = k7_margrel1) \vee (X1 = k7_margrel1)) \Rightarrow \\ & (k4_xboolean X0 X1 = k7_margrel1)))))) \end{aligned} \tag{1}$$

Assume the following.

$$k8_margrel1 = k2_xboolean \tag{2}$$

Assume the following.

$$k7_margrel1 = k1_xboolean \tag{3}$$

Assume the following.

$$v1_xboolean k2_xboolean \tag{4}$$

Assume the following.

$$\forall X0.(v1_xboolean X0) \Leftrightarrow ((X0 = k1_xboolean) \vee (X0 = k2_xboolean)) \tag{5}$$

Assume the following.

$$k2_xboolean = np_1 \tag{6}$$

Theorem 1 $\forall X0.(v1_xboolean X0) \Rightarrow (k4_xboolean k8_margrel1 X0 = X0)$.