

## l86\_modelc\_1

(TMNYdCrDHoU2SF2xoP9RoweZmS5uJqFsfSJ)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_margrel1 : \iota$  be given. Let  $k31\_modelc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  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  $k2\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X0 X1) \Rightarrow ((v1\_xboole\_0 X1) \vee (X0 \in X1)) \quad (1)$$

Assume the following.

$$k8\_margrel1 = k2\_xboolean \quad (2)$$

Assume the following.

$$k7\_margrel1 = k1\_xboolean \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \neg v1\_xboole\_0 (k2\_tarski X0 X1) \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. ((\neg v1\_xboole\_0 X0) \wedge \\ & (((v1\_funct\_1 X2) \wedge ((v1\_funct\_2 X2 X0 X1) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 \\ & (k2\_zfmisc\_1 X0 X1)))))) \wedge (m1\_subset\_1 X3 X0))) \Rightarrow (m1\_subset\_1 ( \\ & k3\_funct\_2 X0 X1 X2 X3) X1) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (\neg v1\_xboole\_0 X0) \Rightarrow ((v1\_funct\_1 (k31\_modelc\_1 \\ & X0 X1)) \wedge ((v1\_funct\_2 (k31\_modelc\_1 X0 X1) X0 k6\_margrel1) \wedge (m1\_subset\_1 \\ & (k31\_modelc\_1 X0 X1) (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 k6\_margrel1)))))) \end{aligned} \quad (6)$$

Assume the following.

$$k2\_xboolean = np\_1 \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(X2 = k2\_tarski X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 = X0) \vee (X3 = X1))) \quad (8)$$

Assume the following.

$$k1\_xboolean = k6\_numbers \quad (9)$$

Assume the following.

$$k6\_margrel1 = k2\_tarski k6\_numbers np\_1 \quad (10)$$

**Theorem 1**

$$\begin{aligned} & \forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow (\forall X1. (m1\_subset\_1 X1 X0) \Rightarrow \\ & (\forall X2. (k3\_funct\_2 X0 k6\_margrel1 (k31\_modelc\_1 X0 X2) X1 \neq \\ & k8\_margrel1) \Rightarrow (k3\_funct\_2 X0 k6\_margrel1 (k31\_modelc\_1 X0 X2) \\ & X1 = k7\_margrel1))) \end{aligned}$$