t24_mcart_1 (TMW3PySVtPEP7MVapsVVJurV8URnr7svz61)

October 27, 2020

Let $k1\_xboole\_0 : \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k2\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(k1\_xtuple\_0\ (k4\_tarski\ X0\ X1) = X0) \wedge (k2\_xtuple\_0\ (k4\_tarski\ X0\ X1) = X1) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\neg(X0 \neq k1\_xboole\_0) \wedge ((X1 \neq k1\_xboole\_0) \wedge (\neg\forall X2.(m1\_subset\_1\ X2\ (k2\_zfmisc\_1\ X0\ X1)) \Rightarrow (X2 = k4\_tarski\ (k1\_xtuple\_0\ X2)\ (k2\_xtuple\_0\ X2)))) \tag{2}$$

Assume the following.

$$\forall X0.(\exists X1.\exists X2.X0 = k4\_tarski\ X1\ X2) \Rightarrow ((X0 \neq k1\_xtuple\_0\ X0) \wedge (X0 \neq k2\_xtuple\_0\ X0)) \tag{3}$$

Theorem 1

$$\forall X0.\forall X1.\neg(X0 \neq k1\_xboole\_0) \wedge ((X1 \neq k1\_xboole\_0) \wedge (\neg\forall X2.(m1\_subset\_1\ X2\ (k2\_zfmisc\_1\ X0\ X1)) \Rightarrow ((X2 \neq k1\_xtuple\_0\ X2) \wedge (X2 \neq k2\_xtuple\_0\ X2))))$$