

t85_mcart_1
(TMd1a5DMEzFnrdRRBtPCxRV9oGv4dsszNL1)

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Let $k13_mcart_1 : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k14_mcart_1 : \iota \Rightarrow \iota$ be given. Let $k15_mcart_1 : \iota \Rightarrow \iota$ be given. Let $k16_mcart_1 : \iota \Rightarrow \iota$ be given. Let $k1_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k2_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(k1_xtuple_0 (k4_tarski X0 X1) = X0) \wedge (k2_xtuple_0 (k4_tarski X0 X1) = X1) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.k4_tarski X0 X1 = k2_tarski (k2_tarski X0 X1) (k1_tarski X0) \quad (2)$$

Assume the following.

$$\forall X0.k16_mcart_1 X0 = k2_xtuple_0 (k2_xtuple_0 X0) \quad (3)$$

Assume the following.

$$\forall X0.k15_mcart_1 X0 = k1_xtuple_0 (k2_xtuple_0 X0) \quad (4)$$

Assume the following.

$$\forall X0.k14_mcart_1 X0 = k2_xtuple_0 (k1_xtuple_0 X0) \quad (5)$$

Assume the following.

$$\forall X0.k13_mcart_1 X0 = k1_xtuple_0 (k1_xtuple_0 X0) \quad (6)$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5. (k13_mcart_1 (k4_tarski (k4_tarski X0 X1) X2) = X0) \wedge ((k14_mcart_1 (k4_tarski (k4_tarski X0 X1) X2) = X1) \wedge ((k15_mcart_1 (k4_tarski X5 (k4_tarski X3 X4)) = X3) \wedge (k16_mcart_1 (k4_tarski X5 (k4_tarski X3 X4)) = X4))))$$