

t90\_mcart\_1  
(TMQDG6EsdzMj3RvCo9zmBvTofh76VMiQczc)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  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.

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

Assume the following.

$$\forall X0. \forall X1. (v1\_relat\_1 X1) \Rightarrow ((X0 \in X1) \Rightarrow (X0 = k4\_tarski (k1\_xtuple\_0 X0) (k2\_xtuple\_0 X0))) \quad (2)$$

**Theorem 1**

$$\forall X0. ((\neg v1\_xboole\_0 X0) \wedge (v1\_relat\_1 X0)) \Rightarrow (\forall X1. (m1\_subset\_1 X1 X0) \Rightarrow (\forall X2. (m1\_subset\_1 X2 X0) \Rightarrow (((k1\_xtuple\_0 X1 = k1\_xtuple\_0 X2) \wedge (k2\_xtuple\_0 X1 = k2\_xtuple\_0 X2)) \Rightarrow (X1 = X2))))$$