t66_card_2 (TMKrPr5Upha8hXwL9b7XnGcLgJoDYrKxYcs)

October 27, 2020

Let $v1\_card\_1 : \iota \Rightarrow o$ be given. Let $k7\_card\_3 : \iota \Rightarrow \iota$ be given. Let $k7\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_card\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_card\_3 : \iota \Rightarrow \iota$ be given. Let $k2\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_card\_3 : \iota \Rightarrow o$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $k1\_card\_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.k1\_funct\_2\ X0\ X1 = k4\_card\_3\ (k7\_funcop\_1\ X0\ X1) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.k7\_funcop\_1\ X0\ X1 = k2\_funcop\_1\ X0\ X1 \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(v1\_card\_1\ X1) \Rightarrow (v1\_card\_3\ (k2\_funcop\_1\ X0\ X1)) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(v1\_relat\_1\ (k2\_funcop\_1\ X0\ X1)) \wedge (v1\_funct\_1\ (k2\_funcop\_1\ X0\ X1)) \tag{4}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v1\_funct\_1\ X0) \wedge (v1\_card\_3\ X0))) \Rightarrow (k7\_card\_3\ X0 = k1\_card\_1\ (k4\_card\_3\ X0)) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_card\_1\ X0) \Rightarrow (\forall X1.(v1\_card\_1\ X1) \Rightarrow (k3\_card\_2\ X0\ X1 = k1\_card\_1\ (k1\_funct\_2\ X1\ X0))) \tag{6}$$

Theorem 1

$$\forall X0.(v1\_card\_1\ X0) \Rightarrow (\forall X1.(v1\_card\_1\ X1) \Rightarrow (k7\_card\_3\ (k7\_funcop\_1\ X0\ X1) = k3\_card\_2\ X1\ X0))$$