t6_card_1 (TMFW2W2ZNSkjDxMxqd6sz3Uz8sUrY7STHEj)

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Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v2\_wellord1 : \iota \Rightarrow o$ be given. Let $r2\_wellord2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_relat\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_wellord2 : \iota \Rightarrow \iota$ be given. Let $v3\_ordinal1 : \iota \Rightarrow o$ be given. Let $k1\_wellord2 : \iota \Rightarrow \iota$ be given. Let $r4\_wellord1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $r3\_wellord1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k10\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $v2\_funct\_1 : \iota \Rightarrow o$ be given. Let $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1\_relat\_1\ X0) \Rightarrow (v3\_ordinal1\ (k2\_wellord2\ X0)) \tag{1}$$

Assume the following.

$$\forall X0.v1\_relat\_1\ (k1\_wellord2\ X0) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_relat\_1\ X0) \Rightarrow (\forall X1.(v1\_relat\_1\ X1) \Rightarrow ((r4\_wellord1\ X0\ X1) \Leftrightarrow (\exists X2.((v1\_relat\_1\ X2) \wedge (v1\_funct\_1\ X2)) \wedge (r3\_wellord1\ X0\ X1\ X2)))) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_relat\_1\ X0) \Rightarrow (\forall X1.(v1\_relat\_1\ X1) \Rightarrow (\forall X2.((v1\_relat\_1\ X2) \wedge (v1\_funct\_1\ X2)) \Rightarrow ((r3\_wellord1\ X0\ X1\ X2) \Leftrightarrow ((k9\_xtuple\_0\ X2 = k1\_relat\_1\ X0) \wedge ((k10\_xtuple\_0\ X2 = k1\_relat\_1\ X1) \wedge ((v2\_funct\_1\ X2) \wedge (\forall X3.\forall X4.(k4\_tarski\ X3\ X4 \in X0) \Leftrightarrow ((X3 \in k1\_relat\_1\ X0) \wedge ((X4 \in k1\_relat\_1\ X0) \wedge (k4\_tarski\ (k1\_funct\_1\ X2\ X3)\ (k1\_funct\_1\ X2\ X4) \in X1)))))))))) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.(r2\_wellord2\ X0\ X1) \Leftrightarrow (\exists X2.((v1\_relat\_1\ X2) \wedge (v1\_funct\_1\ X2)) \wedge ((v2\_funct\_1\ X2) \wedge ((k9\_xtuple\_0\ X2 = X0) \wedge (k10\_xtuple\_0\ X2 = X1)))) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_relat\_1\ X0)\Rightarrow((v2\_wellord1\ X0)\Rightarrow(\forall X1.(v3\_ordinal1\ X1)\Rightarrow((X1 = k2\_wellord2\ X0)\Leftrightarrow(r4\_wellord1\ X0\ (k1\_wellord2\ X1))))) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.(v1\_relat\_1\ X1)\Rightarrow((X1 = k1\_wellord2\ X0)\Leftrightarrow((k1\_relat\_1\ X1 = X0)\wedge(\forall X2.\forall X3.((X2 \in X0)\wedge(X3 \in X0))\Rightarrow((k4\_tarski\ X2\ X3 \in X1)\Leftrightarrow(r1\_tarski\ X2\ X3))))) \tag{7}$$

Theorem 1

$$\forall X0.(v1\_relat\_1\ X0)\Rightarrow((v2\_wellord1\ X0)\Rightarrow(r2\_wellord2\ (k1\_relat\_1\ X0)\ (k2\_wellord2\ X0)))$$