t31_classes2 (TMasKUEhz8n3VWdAvz4EXrF7GES92CXALkD)

October 27, 2020

Let $v2\_classes1 : \iota \Rightarrow o$ be given. Let $v1\_ordinal1 : \iota \Rightarrow o$ be given. Let $k4\_classes1 : \iota \Rightarrow \iota$ be given. Let $k1\_card\_1 : \iota \Rightarrow \iota$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v2\_classes1\ X0) \wedge (v1\_ordinal1\ X0)) \Rightarrow (r1\_tarski\ X0\ (k4\_classes1\ (k1\_card\_1\ X0))) \tag{1}$$

Assume the following.

$$\forall X0.(v2\_classes1\ X0) \Rightarrow (r1\_tarski\ (k4\_classes1\ (k1\_card\_1\ X0))\ X0) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(X0 = X1) \Leftrightarrow ((r1\_tarski\ X0\ X1) \wedge (r1\_tarski\ X1\ X0)) \tag{3}$$

Theorem 1

$$\forall X0.((v2\_classes1\ X0) \wedge (v1\_ordinal1\ X0)) \Rightarrow (k4\_classes1\ (k1\_card\_1\ X0) = X0)$$