t66_classes1 (TMQXhgWYMc7v1gAMsQ48GBCPXCytmxPV9Un)

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Let $v3\_ordinal1 : \iota \Rightarrow o$ be given. Let $k4\_classes1 : \iota \Rightarrow \iota$ be given. Let $k6\_classes1 : \iota \Rightarrow \iota$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9\_setfam\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_ordinal1 : \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v5\_ordinal1 : \iota \Rightarrow o$ be given. Let $v4\_ordinal1 : \iota \Rightarrow o$ be given. Let $k9\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_tarski : \iota \Rightarrow \iota$ be given. Let $k10\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(v3\_ordinal1\ X1) \Rightarrow ((r1\_tarski\ X0\ (k4\_classes1\ X1)) \Leftrightarrow (r1\_ordinal1\ (k6\_classes1\ X0)\ X1)) \tag{1}$$

Assume the following.

$$\forall X0.k6\_classes1\ (k9\_setfam\_1\ X0) = k1\_ordinal1\ (k6\_classes1\ X0) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(v3\_ordinal1\ X1) \Rightarrow ((X0 \in k4\_classes1\ X1) \Leftrightarrow (k9\_setfam\_1\ X0 \in k4\_classes1\ (k1\_ordinal1\ X1))) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(v3\_ordinal1\ X2) \Rightarrow (((r1\_tarski\ X0\ X1) \wedge (X1 \in k4\_classes1\ X2)) \Rightarrow (X0 \in k4\_classes1\ X2)) \tag{4}$$

Assume the following.

$$\forall X0.(v3\_ordinal1\ X0) \Rightarrow (\forall X1.(v3\_ordinal1\ X1) \Rightarrow ((X0 \in X1) \Leftrightarrow (k4\_classes1\ X0 \in k4\_classes1\ X1))) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.(v3\_ordinal1\ X1) \Rightarrow ((r1\_tarski\ X0\ (k4\_classes1\ X1)) \Leftrightarrow (X0 \in k4\_classes1\ (k1\_ordinal1\ X1))) \tag{6}$$

Assume the following.

$$\forall X0.(v3\_ordinal1\ X0)\Rightarrow(\forall X1.(v3\_ordinal1\ X1)\Rightarrow((X0 \in X1)\Leftrightarrow(r1\_ordinal1\ (k1\_ordinal1\ X0)\ X1))) \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.((v3\_ordinal1\ X0)\wedge(v3\_ordinal1\ X1))\Rightarrow(r1\_ordinal1\ X0\ X0) \tag{8}$$

Assume the following.

$$(k4\_classes1\ k1\_xboole\_0 = k1\_xboole\_0)\wedge((\forall X0.(v3\_ordinal1\ X0)\Rightarrow(k4\_classes1\ (k1\_ordinal1\ X0) = k9\_setfam\_1\ (k4\_classes1\ X0)))\wedge(\forall X0.(v3\_ordinal1\ X0)\Rightarrow(\forall X1.((v1\_relat\_1\ X1)\wedge((v1\_funct\_1\ X1)\wedge(v5\_ordinal1\ X1)))\Rightarrow(((v4\_ordinal1\ X0)\wedge((k9\_xtuple\_0\ X1 = X0)\wedge(\forall X2.(v3\_ordinal1\ X2)\Rightarrow((X2 \in X0)\Rightarrow(k1\_funct\_1\ X1\ X2 = k4\_classes1\ X2)))))\Rightarrow((X0 = k1\_xboole\_0)\vee(k4\_classes1\ X0 = k3\_tarski\ (k10\_xtuple\_0\ X1))))))) \tag{9}$$

Assume the following.

$$\forall X0.v3\_ordinal1\ (k6\_classes1\ X0) \tag{10}$$

Assume the following.

$$\forall X0.k1\_ordinal1\ X0 = k2\_xboole\_0\ X0\ (k1\_tarski\ X0) \tag{11}$$

Theorem 1

$$\forall X0.\forall X1.(v3\_ordinal1\ X1)\Rightarrow((X0 \in k4\_classes1\ X1)\Leftrightarrow(k6\_classes1\ X0 \in X1))$$