

t52_classes1
(TMGC5WgQYAvcz8cEfbuBsgnuh9cvt8s3Uov)

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Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_classes1 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_ordinal1 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0 : \iota \Rightarrow \iota \Rightarrow \iota. \forall X1. \exists X2. ((v1_relat_1 X2) \wedge \\ & (v1_funct_1 X2)) \wedge ((k9_xtuple_0 X2 = k4_ordinal1) \wedge ((k1_funct_1 \\ & X2 k1_xboole_0 = X1) \wedge (\forall X3. (v7_ordinal1 X3) \Rightarrow (k1_funct_1 \\ & X2 (k1_ordinal1 X3) = X0 X3 (k1_funct_1 X2 X3)))))) \end{aligned} \quad (2)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (X1 = k5_classes1 X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow \\ & (\exists X3. ((v1_relat_1 X3) \wedge (v1_funct_1 X3)) \wedge (\exists X4. (\\ & m1_subset_1 X4 k4_ordinal1) \wedge ((X2 \in k1_funct_1 X3 X4) \wedge ((k9_xtuple_0 \\ & X3 = k4_ordinal1) \wedge ((k1_funct_1 X3 k1_xboole_0 = X0) \wedge (\forall X5. \\ & (v7_ordinal1 X5) \Rightarrow (k1_funct_1 X3 (k1_ordinal1 X5) = k3_tarski (\\ & k1_funct_1 X3 X5)))))))))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (5)$$

Assume the following.

$$\forall X0. (v7_ordinal1 X0) \Leftrightarrow (X0 \in k4_ordinal1) \quad (6)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (v7_ordinal1 X0) \quad (7)$$

Theorem 1 $\forall X0.r1_tarski X0 (k5_classes1 X0)$.