

t70_classes1 (TM-
FYfT8g4RjvtmhmpjTTCRGNjn4ngcZaCXd)

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Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_classes1 : \iota \Rightarrow \iota$ be given. Let $k4_classes1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (k6_classes1 X0 \in k6_classes1 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (v3_ordinal1 X1) \Rightarrow ((X0 \in k4_classes1 X1) \Leftrightarrow (k6_classes1 X0 \in X1)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \neg(X0 \in X1) \wedge (r1_tarski X1 X0) \quad (3)$$

Assume the following.

$$\forall X0. (v3_ordinal1 X0) \Rightarrow (\forall X1. (v3_ordinal1 X1) \Rightarrow ((r1_ordinal1 X0 X1) \vee (X1 \in X0))) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. ((v3_ordinal1 X0) \wedge (v3_ordinal1 X1)) \Rightarrow ((r1_ordinal1 X0 X1) \Leftrightarrow (r1_tarski X0 X1)) \quad (5)$$

Assume the following.

$$\forall X0. v3_ordinal1 (k6_classes1 X0) \quad (6)$$

Assume the following.

$$\forall X0. \forall X1. (v3_ordinal1 X1) \Rightarrow ((X1 = k6_classes1 X0) \Leftrightarrow ((r1_tarski X0 (k4_classes1 X1)) \wedge (\forall X2. (v3_ordinal1 X2) \Rightarrow ((r1_tarski X0 (k4_classes1 X2)) \Rightarrow (r1_ordinal1 X1 X2)))))) \quad (7)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (8)$$

Theorem 1

$$\forall X0.\forall X1.(v3_ordinal1\ X1)\Rightarrow((r1_ordinal1\ X1\ (k6_classes1\ X0))\Leftrightarrow(\forall X2.(v3_ordinal1\ X2)\Rightarrow(\neg(X2\in X1)\wedge(\forall X3.\neg(X3\in X0)\wedge(r1_ordinal1\ X2\ (k6_classes1\ X3))))))$$