

t45_classes1

(TMHF72gSg7QgAurb5EhduMYTUXDDrBAoiXH)

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Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $k4_classes1 : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_ordinal1 : \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (v3_ordinal1 X2) \Rightarrow (((X0 \in k4_classes1 X2) \wedge (X1 \in k4_classes1 X2)) \Leftrightarrow (k2_tarski X0 X1 \in k4_classes1 (k1_ordinal1 X2))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (v3_ordinal1 X1) \Rightarrow ((X0 \in k4_classes1 X1) \Leftrightarrow (k1_tarski X0 \in k4_classes1 (k1_ordinal1 X1))) \quad (2)$$

Assume the following.

$$\forall X0. (v3_ordinal1 X0) \Rightarrow ((\neg v1_xboole_0 (k1_ordinal1 X0)) \wedge (v3_ordinal1 (k1_ordinal1 X0))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. k4_tarski X0 X1 = k2_tarski (k2_tarski X0 X1) (k1_tarski X0) \quad (4)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. (v3_ordinal1 X2) \Rightarrow (((X0 \in k4_classes1 X2) \wedge (X1 \in k4_classes1 X2)) \Leftrightarrow (k4_tarski X0 X1 \in k4_classes1 (k1_ordinal1 X2)))$$