

t65\_classes1  
(TMM2AwzprMsgJPX7rborWwJQyVnxmZnzBRL)

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Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_classes1 : \iota \Rightarrow \iota$  be given. Let  $r1\_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_classes1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v3\_ordinal1 X0) \Rightarrow (\forall X1.(v3\_ordinal1 X1) \Rightarrow ((r1\_ordinal1 X0 X1) \Leftrightarrow (r1\_tarski (k4\_classes1 X0) (k4\_classes1 X1)))) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((r1\_tarski X0 X1) \wedge (r1\_tarski X1 X2)) \Rightarrow (r1\_tarski X0 X2) \quad (2)$$

Assume the following.

$$\forall X0.v3\_ordinal1 (k6\_classes1 X0) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.(v3\_ordinal1 X1) \Rightarrow ((X1 = k6\_classes1 X0) \Leftrightarrow ((r1\_tarski X0 (k4\_classes1 X1)) \wedge (\forall X2.(v3\_ordinal1 X2) \Rightarrow ((r1\_tarski X0 (k4\_classes1 X2)) \Rightarrow (r1\_ordinal1 X1 X2)))))) \quad (4)$$

**Theorem 1**

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