

t42\_classes1  
(TMKg9WSibBhQ1f8iuSsDHEE8Z5eUawDTSKQ)

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Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k4\_classes1 : \iota \Rightarrow \iota$  be given. Let  $k9\_setfam\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_ordinal1 : \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (v3\_ordinal1 X2) \Rightarrow ((r1\_tarski X0 X1) \wedge (X1 \in k4\_classes1 X2)) \Rightarrow (X0 \in k4\_classes1 X2) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X0 (k1\_zfmisc\_1 X1)) \Leftrightarrow (r1\_tarski X0 X1) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (v3\_ordinal1 X1) \Rightarrow ((r1\_tarski X0 (k4\_classes1 X1)) \Leftrightarrow (X0 \in k4\_classes1 (k1\_ordinal1 X1))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1\_subset\_1 X0 X1) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. r1\_tarski X0 X0 \quad (5)$$

Assume the following.

$$\forall X0. k9\_setfam\_1 X0 = k1\_zfmisc\_1 X0 \quad (6)$$

Assume the following.

$$\forall X0. \forall X1. (r1\_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (7)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k1\_zfmisc\_1 X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (r1\_tarski X2 X0)) \quad (8)$$

**Theorem 1**

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