

## t23\_classes2

(TMajJAvHv13TGnP4Aho3eRvcyDePwNwqiJP)

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Let  $k1\_classes1 : \iota \Rightarrow \iota$  be given. Let  $v1\_ordinal1 : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_card\_1 : \iota \Rightarrow \iota$  be given. Let  $k9\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v2\_classes1 : \iota \Rightarrow o$  be given. Let  $k1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. ((r1\_tarski X0 (k1\_classes1 X1)) \wedge (k1\_card\_1 X0 \in k1\_card\_1 (k1\_classes1 X1))) \Rightarrow (X0 \in k1\_classes1 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (X0 \in k1\_classes1 X1) \Rightarrow (k1\_card\_1 X0 \in k1\_card\_1 (k1\_classes1 X1)) \quad (2)$$

Assume the following.

$$\forall X0. (v1\_ordinal1 X0) \Rightarrow (v1\_ordinal1 (k1\_classes1 X0)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (v2\_classes1 X0) \Rightarrow (((\neg(X1 \in X0) \wedge (v1\_ordinal1 X0)) \wedge ((\neg(X1 \in X0) \wedge (r1\_tarski X1 X0)) \wedge (\neg(k1\_card\_1 X1 \in k1\_card\_1 X0) \wedge (r1\_tarski X1 X0)))) \vee (r1\_tarski (k1\_funct\_2 X1 X0) X0)) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (\neg v1\_xboole\_0 X1) \Rightarrow (k9\_funct\_2 X0 X1 = k1\_funct\_2 X0 X1) \quad (5)$$

Assume the following.

$$\forall X0. v2\_classes1 (k1\_classes1 X0) \quad (6)$$

Assume the following.

$$\forall X0. \neg v1\_xboole\_0 (k1\_classes1 X0) \quad (7)$$

**Theorem 1**

$$\begin{aligned} & \forall X0. \forall X1. (\neg(\neg(X0 \in k1\_classes1\ X1) \wedge (v1\_ordinal1 \\ & X1)) \wedge (\neg(X0 \in k1\_classes1\ X1) \wedge (r1\_tarski\ X0\ (k1\_classes1\ X1))) \wedge \\ & (\neg(k1\_card\_1\ X0 \in k1\_card\_1\ (k1\_classes1\ X1)) \wedge (r1\_tarski\ X0\ (k1\_classes1 \\ & X1)))) \Rightarrow (r1\_tarski\ (k9\_funct\_2\ X0\ (k1\_classes1\ X1))\ (k1\_classes1 \\ & X1)) \end{aligned}$$