

## t31\_circcmb3

(TMWvsFqs3h1Wwgji9Qn2cz5ZtVAo5Qu8JPm)

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Let  $k6\_classes1 : \iota \Rightarrow \iota$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k2\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $v2\_ordinal1 : \iota \Rightarrow o$  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.

$$\forall X0. \forall X1. \forall X2. (v1\_ordinal1 X2) \Rightarrow (((X0 \in X1) \wedge (X1 \in X2)) \Rightarrow (X0 \in X2)) \quad (2)$$

Assume the following.

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

Assume the following.

$$\forall X0. \forall X1. k4\_tarski X0 X1 = k2\_tarski (k2\_tarski X0 X1) (k1\_tarski X0) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k2\_tarski X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 = X0) \vee (X3 = X1))) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. k2\_tarski X0 X1 = k2\_tarski X1 X0 \quad (6)$$

Assume the following.

$$\forall X0. (v3\_ordinal1 X0) \Rightarrow ((v1\_ordinal1 X0) \wedge (v2\_ordinal1 X0)) \quad (7)$$

**Theorem 1**

$$\forall X0. \forall X1. (k6\_classes1 X0 \in k6\_classes1 (k4\_tarski X0 X1)) \wedge (k6\_classes1 X1 \in k6\_classes1 (k4\_tarski X0 X1))$$