

t20\_abcmiz\_1

(TMFkhfP5AVxw1g3UEt4wPbymg9coh9s44zf)

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Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Let  $k6\_classes1 : \iota \Rightarrow \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k4\_classes1 : \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $r1\_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (v1\_finset\_1 (k4\_classes1 X0)) \quad (1)$$

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.

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

Assume the following.

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

Assume the following.

$$\forall X0.((v3\_ordinal1 X0) \wedge (v1\_finset\_1 X0)) \Rightarrow (v7\_ordinal1 X0) \quad (5)$$

Assume the following.

$$\forall X0.(v1\_finset\_1 X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)) \Rightarrow (v1\_finset\_1 X1)) \quad (6)$$

**Theorem 1**  $\forall X0.(v1\_finset\_1 (k6\_classes1 X0)) \Rightarrow (v1\_finset\_1 X0).$