

t63\_afinsq\_1  
(TMbqPzCHogFr65pF9UMgtf7derMhhovWZFk)

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Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $k7\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v5\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1\_subset\_1 X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. (v7\_ordinal1 X0) \Rightarrow (\forall X1. (v1\_relat\_1 (k7\_funcop\_1 X0 X1)) \wedge ((v5\_ordinal1 (k7\_funcop\_1 X0 X1)) \wedge ((v1\_funct\_1 (k7\_funcop\_1 X0 X1)) \wedge (v1\_finset\_1 (k7\_funcop\_1 X0 X1)))))) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. k7\_funcop\_1 X0 X1 = k2\_funcop\_1 X0 X1 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((\neg v1\_xboole\_0 X1) \wedge (m1\_subset\_1 X2 X1)) \Rightarrow (v5\_relat\_1 (k2\_funcop\_1 X0 X2) X1) \quad (4)$$

Assume the following.

$$\forall X0. (v1\_xboole\_0 X0) \Leftrightarrow (\forall X1. \neg X1 \in X0) \quad (5)$$

**Theorem 1**

$$\forall X0. \forall X1. (v7\_ordinal1 X1) \Rightarrow (\forall X2. (X2 \in X0) \Rightarrow ((v1\_relat\_1 (k7\_funcop\_1 X1 X2)) \wedge ((v5\_relat\_1 (k7\_funcop\_1 X1 X2) X0) \wedge ((v5\_ordinal1 (k7\_funcop\_1 X1 X2)) \wedge ((v1\_funct\_1 (k7\_funcop\_1 X1 X2)) \wedge (v1\_finset\_1 (k7\_funcop\_1 X1 X2))))))))$$