

# t32\_modal\_1 (TMcMh- cyP4YNyPM2umBu9hirKKQf4PG5LiU3)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_modal\_1 : \iota$  be given. Let  $k16\_modal\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v1\_trees\_1 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k6\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $k8\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k2\_trees\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (X1 \in X0) \Rightarrow (k1\_funct\_1 (k2\_funcop\_1 X0 X2) X1 = X2) \quad (1)$$

Assume the following.

$$\forall X0. ((\neg v1\_xboole\_0 X0) \wedge (v1\_trees\_1 X0)) \Rightarrow ((k1\_xboole\_0 \in X0) \wedge (k6\_finseq\_1 k5\_numbers \in X0)) \quad (2)$$

Assume the following.

$$m1\_subset\_1 k1\_xboole\_0 k4\_ordinal1 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((\neg v1\_xboole\_0 X0) \wedge (m1\_subset\_1 X2 X0)) \Rightarrow (k8\_funcop\_1 X0 X1 X2 = k2\_funcop\_1 X1 X2) \quad (4)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (5)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (6)$$

Assume the following.

$$\neg v1\_xboole\_0 k3\_modal\_1 \quad (7)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k5\_numbers) \Rightarrow ((\neg v1\_xboole\_0 (k2\_trees\_1 X0)) \wedge (v1\_trees\_1 (k2\_trees\_1 X0))) \quad (8)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k3\_modal\_1) \Rightarrow (k16\_modal\_1 X0 = k8\_funcop\_1 k3\_modal\_1 (k2\_trees\_1 k6\_numbers) X0) \quad (9)$$

**Theorem 1**

$$\forall X0.(m1\_subset\_1 X0 k3\_modal\_1) \Rightarrow (\forall X1.(m1\_subset\_1 X1 k3\_modal\_1) \Rightarrow ((k16\_modal\_1 X0 = k16\_modal\_1 X1) \Rightarrow (X0 = X1)))$$