

## t16\_idea\_1

(TMTzGT9658uyaTuPwXUmQLDUBu7URcnraVH)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $r1\_idea\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_idea\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  be given. Let  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k4\_idea\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k5\_idea\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_nat\_d : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_series\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((X0 \in X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 X2))) \Rightarrow (m1\_subset\_1 X0 X2) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X0 X1) \Rightarrow ((v1\_xboole\_0 X1) \vee (X0 \in X1)) \quad (2)$$

Assume the following.

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

Assume the following.

$$\forall X0. (v1\_xcmplx\_0 X0) \Rightarrow (k2\_xcmplx\_0 X0 k6\_numbers = X0) \quad (4)$$

Assume the following.

$$\forall X0. (m1\_subset\_1 X0 k5\_numbers) \Rightarrow (\forall X1. (m1\_subset\_1 X1 k5\_numbers) \Rightarrow (\forall X2. (m1\_subset\_1 X2 k5\_numbers) \Rightarrow (r1\_idea\_1 X2 (k4\_idea\_1 X2 X0 X1)))) \quad (5)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (6)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (7)$$

Assume the following.

$$(\neg v1\_xboole\_0 \ k4\_ordinal1) \wedge (v3\_ordinal1 \ k4\_ordinal1) \quad (8)$$

Assume the following.

$$m1\_subset\_1 \ k5\_numbers \ (k1\_zfmisc\_1 \ k1\_numbers) \quad (9)$$

Assume the following.

$$\forall X0. \forall X1. ((m1\_subset\_1 \ X0 \ k5\_numbers) \wedge (m1\_subset\_1 \ X1 \ k5\_numbers)) \Rightarrow (m1\_subset\_1 \ (k5\_idea\_1 \ X0 \ X1) \ k5\_numbers) \quad (10)$$

Assume the following.

$$\forall X0. (m1\_subset\_1 \ X0 \ k5\_numbers) \Rightarrow (\forall X1. (m1\_subset\_1 \ X1 \ k5\_numbers) \Rightarrow (k6\_idea\_1 \ X0 \ X1 = k4\_nat\_d \ (k5\_idea\_1 \ X0 \ X1) \ (k5\_series\_1 \ np\_2 \ X0))) \quad (11)$$

Assume the following.

$$\forall X0. (m1\_subset\_1 \ X0 \ k5\_numbers) \Rightarrow (\forall X1. (v7\_ordinal1 \ X1) \Rightarrow (\forall X2. (v7\_ordinal1 \ X2) \Rightarrow (k4\_idea\_1 \ X0 \ X1 \ X2 = k4\_nat\_d \ (k2\_xcmplx\_0 \ X1 \ X2) \ (k5\_series\_1 \ np\_2 \ X0)))) \quad (12)$$

Assume the following.

$$k1\_xboole\_0 = the \ (\lambda X0 : \iota. v1\_xboole\_0 \ X0) \quad (13)$$

Assume the following.

$$\forall X0. (m1\_subset\_1 \ X0 \ k4\_ordinal1) \Rightarrow (v7\_ordinal1 \ X0) \quad (14)$$

Assume the following.

$$\forall X0. (v1\_xreal\_0 \ X0) \Rightarrow (v1\_xcmplx\_0 \ X0) \quad (15)$$

Assume the following.

$$\forall X0. (m1\_subset\_1 \ X0 \ k1\_numbers) \Rightarrow (v1\_xreal\_0 \ X0) \quad (16)$$

**Theorem 1**

$$\forall X0. (m1\_subset\_1 \ X0 \ k5\_numbers) \Rightarrow (\forall X1. (m1\_subset\_1 \ X1 \ k5\_numbers) \Rightarrow (r1\_idea\_1 \ X1 \ (k6\_idea\_1 \ X1 \ X0)))$$