

t6\_int\_4  
(TMaLGVb17BktGBY95j4bxGew9r3A4uvmFoS)

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Let  $v1\_int\_1 : \iota \Rightarrow o$  be given. Let  $r1\_int\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_numbers : \iota$  be given. Let  $r1\_xreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_int\_2 : \iota \Rightarrow \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k16\_complex1 : \iota \Rightarrow \iota$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (\neg(k6\_numbers \neq X0) \wedge (r1\_xreal\_0 X0 k6\_numbers)) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_int\_1 X0) \Rightarrow ((r1\_int\_1 k6\_numbers X0) \Leftrightarrow (X0 = k6\_numbers)) \quad (2)$$

Assume the following.

$$\forall X0.(v1\_int\_1 X0) \Rightarrow (\forall X1.(v1\_int\_1 X1) \Rightarrow ((r1\_int\_1 X0 X1) \Leftrightarrow (r1\_int\_1 (k1\_int\_2 X0) (k1\_int\_2 X1)))) \quad (3)$$

Assume the following.

$$\forall X0.(v1\_int\_1 X0) \Rightarrow ((r1\_int\_1 (k1\_int\_2 X0) X0) \wedge (r1\_int\_1 X0 (k1\_int\_2 X0))) \quad (4)$$

Assume the following.

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

Assume the following.

$$\forall X0.(v1\_int\_1 X0) \Rightarrow (k1\_int\_2 X0 = k16\_complex1 X0) \quad (6)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.(v7\_ordinal1 X1) \Rightarrow ((r1\_int\_1 X1 X0) \Rightarrow ((r1\_xreal\_0 X0 k6\_numbers) \vee (r1\_xreal\_0 X1 X0)))) \quad (7)$$

Assume the following.

$$\forall X0.(v1\_int\_1 X0) \Rightarrow ((v7\_ordinal1 (k16\_complex1 X0)) \wedge (v1\_xreal\_0 (k16\_complex1 X0))) \quad (8)$$

**Theorem 1**

$$\forall X0.(v1\_int\_1 X0) \Rightarrow (\forall X1.(v1\_int\_1 X1) \Rightarrow ((r1\_int\_1 X0 X1) \Rightarrow ((X1 = k6\_numbers) \vee (r1\_xxreal\_0 (k1\_int\_2 X0) (k1\_int\_2 X1))))))$$