

t21\_classes2 (TM-  
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Let  $k1\_card\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_classes1 : \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $v4\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v2\_classes1 : \iota \Rightarrow o$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v1\_card\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v2\_classes1 X0) \Rightarrow (v4\_ordinal1 (k1\_card\_1 X0)) \quad (1)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (2)$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0 X0) \Rightarrow ((\neg v1\_xboole\_0 (k1\_card\_1 X0)) \wedge (v1\_card\_1 (k1\_card\_1 X0))) \quad (3)$$

Assume the following.

$$v1\_xboole\_0 k1\_xboole\_0 \quad (4)$$

Assume the following.

$$\forall X0.v2\_classes1 (k1\_classes1 X0) \quad (5)$$

Assume the following.

$$\forall X0.\neg v1\_xboole\_0 (k1\_classes1 X0) \quad (6)$$

**Theorem 1**

$$\forall X0.(k1\_card\_1 (k1\_classes1 X0) \neq k6\_numbers) \wedge ((k1\_card\_1 (k1\_classes1 X0) \neq k1\_xboole\_0) \wedge (v4\_ordinal1 (k1\_card\_1 (k1\_classes1 X0))))$$