

t17\_ringcat1  
(TMayGe2Le63ycLib5SGyVa3voEvBQ3vDkrw)

October 27, 2020

Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v1\_classes2 : \iota \Rightarrow o$  be given. Let  $k18\_mod\_2 : \iota$  be given. Let  $k9\_ringcat1 : \iota \Rightarrow \iota$  be given. Let  $r2\_ringcat1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.((\neg v1\_xboole\_0 X0) \wedge (v1\_classes2 X0)) \Rightarrow (\exists X1. (X1 \in X0) \wedge (r2\_ringcat1 X1 k18\_mod\_2)) \quad (1)$$

Assume the following.

$$\forall X0.((\neg v1\_xboole\_0 X0) \wedge (v1\_classes2 X0)) \Rightarrow (\forall X1. (X1 = k9\_ringcat1 X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (\exists X3. (X3 \in X0) \wedge (r2\_ringcat1 X3 X2)))) \quad (2)$$

**Theorem 1**

$$\forall X0.((\neg v1\_xboole\_0 X0) \wedge (v1\_classes2 X0)) \Rightarrow (k18\_mod\_2 \in k9\_ringcat1 X0)$$