

t1\_card\_2  
(TML8ytUeVnpA9qtTQLdo3D85anXTxpRsqJi)

October 27, 2020

Let  $r2\_wellord2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \neg(X0 \neq k1\_xboole\_0) \wedge (\forall X1. \neg X1 \in X0) \quad (1)$$

Assume the following.

$$\forall X0. (r2\_wellord2 X0 k1\_xboole\_0) \Rightarrow (X0 = k1\_xboole\_0) \quad (2)$$

Assume the following.

$$v1\_xboole\_0 k1\_xboole\_0 \quad (3)$$

Assume the following.

$$\forall X0. (v1\_xboole\_0 X0) \Leftrightarrow (\forall X1. \neg X1 \in X0) \quad (4)$$

**Theorem 1**

$$\forall X0. \forall X1. \forall X2. ((X0 \in X1) \wedge (r2\_wellord2 X1 X2)) \Rightarrow ((X2 \neq k1\_xboole\_0) \wedge (\exists X3. X3 \in X2))$$