

t8\_enumset1  
(TMYUqFGf3zjKcTaFrUDwHU51tftajsD7yba)

October 27, 2020

Let  $k3\_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_tarSKI : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_tarSKI : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. k2\_xboole\_0 (k2\_xboole\_0 X0 X1) X2 = k2\_xboole\_0 X0 (k2\_xboole\_0 X1 X2) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. k1\_enumset1 X0 X1 X2 = k2\_xboole\_0 (k2\_tarSKI X0 X1) (k1\_tarSKI X2) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. k1\_enumset1 X0 X1 X2 = k2\_xboole\_0 (k1\_tarSKI X0) (k2\_tarSKI X1 X2) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. \forall X4. k3\_enumset1 X0 X1 X2 X3 X4 = k2\_xboole\_0 (k1\_enumset1 X0 X1 X2) (k2\_tarSKI X3 X4) \quad (4)$$

**Theorem 1**

$$\forall X0. \forall X1. \forall X2. \forall X3. \forall X4. k3\_enumset1 X0 X1 X2 X3 X4 = k2\_xboole\_0 (k2\_tarSKI X0 X1) (k1\_enumset1 X2 X3 X4)$$