

l16\_cohsp\_1  
(TMZ9cbspJqvjPrjzwmwT8aDyvNiTiQTzTjcM)

October 27, 2020

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

$$\forall X0. \forall X1. k3\_tarski (k2\_xboole\_0 X0 X1) = k2\_xboole\_0 (k3\_tarski X0) (k3\_tarski X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. k3\_tarski (k2\_tarski X0 X1) = k2\_xboole\_0 X0 X1 \quad (2)$$

Assume the following.

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

Assume the following.

$$\forall X0. k3\_tarski (k1\_tarski X0) = X0 \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k2\_xboole\_0 X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 \in X0) \vee (X3 \in X1))) \quad (5)$$

**Theorem 1**

$$\forall X0. \forall X1. k3\_tarski (k1\_enumset1 X0 X1 (k2\_xboole\_0 X0 X1)) = k2\_xboole\_0 X0 X1$$