

## t27\_yellow\_1

(TMY1smWhhNpcnNyLT3Gm7LxzCR3YsuJ5Et5)

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Let  $l1\_orders\_2 : \iota \Rightarrow o$  be given. Let  $k6\_yellow\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $g1\_orders\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $k6\_partfun1 : \iota \Rightarrow \iota$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_partfun1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_yellow\_1 : \iota \Rightarrow o$  be given. Let  $k5\_yellow\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k7\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0.((v1\_relat\_1 X0) \wedge ((v4\_relat\_1 X0 k1\_xboole\_0) \wedge (( \\ v1\_funct\_1 X0) \wedge ((v1\_partfun1 X0 k1\_xboole\_0) \wedge (v1\_yellow\_1 X0)))))) \Rightarrow \\ (k5\_yellow\_1 k1\_xboole\_0 X0 = g1\_orders\_2 (k1\_tarski k1\_xboole\_0) \\ (k6\_partfun1 (k1\_tarski k1\_xboole\_0))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. k7\_funcop\_1 X0 X1 = k2\_funcop\_1 X0 X1 \tag{2}$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (v1\_relat\_1 (k2\_funcop\_1 X0 X1)) \wedge ((v4\_relat\_1 \\ (k2\_funcop\_1 X0 X1) X0) \wedge ((v1\_funct\_1 (k2\_funcop\_1 X0 X1)) \wedge (v1\_partfun1 \\ (k2\_funcop\_1 X0 X1) X0))) \end{aligned} \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. (l1\_orders\_2 X1) \Rightarrow (v1\_yellow\_1 (k2\_funcop\_1 X0 X1)) \tag{4}$$

Assume the following.

$$\forall X0. \forall X1. (l1\_orders\_2 X1) \Rightarrow (k6\_yellow\_1 X0 X1 = k5\_yellow\_1 X0 (k7\_funcop\_1 X0 X1)) \tag{5}$$

Assume the following.

$$k1\_xboole\_0 = the (\lambda X0 : \iota. v1\_xboole\_0 X0) \tag{6}$$

**Theorem 1**

$$\forall X0.(l1\_orders\_2 X0) \Rightarrow (k6\_yellow\_1 k1\_xboole\_0 X0 = g1\_orders\_2 (k1\_tarski k1\_xboole\_0) (k6\_partfun1 (k1\_tarski k1\_xboole\_0)))$$