

# t17\_unialg\_2

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v2\_unialg\_1 : \iota \Rightarrow o$  be given. Let  $v3\_unialg\_1 : \iota \Rightarrow o$  be given. Let  $v4\_unialg\_1 : \iota \Rightarrow o$  be given. Let  $v2\_unialg\_2 : \iota \Rightarrow o$  be given. Let  $l1\_unialg\_1 : \iota \Rightarrow o$  be given. Let  $m1\_unialg\_2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k6\_unialg\_2 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (\neg v1\_xboole\_0 X2) \Rightarrow (\neg (r1\_tarski X2 X0) \wedge ((r1\_tarski X2 X1) \wedge (r1\_xboole\_0 X0 X1))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X0 (k1\_zfmisc\_1 X1)) \Leftrightarrow (r1\_tarski X0 X1) \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v2\_struct\_0 X0) \wedge ((v2\_unialg\_1 X0) \wedge ((v3\_unialg\_1 \\ X0) \wedge ((v4\_unialg\_1 X0) \wedge ((v2\_unialg\_2 X0) \wedge (l1\_unialg\_1 X0)))))) \Rightarrow \\ &(\forall X1. (m1\_unialg\_2 X1 X0) \Rightarrow ((\neg v1\_xboole\_0 (k6\_unialg\_2 \\ X0) \wedge (m1\_subset\_1 (k6\_unialg\_2 X0) (k1\_zfmisc\_1 (u1\_struct\_0 \\ X1)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1\_xboole\_0 X0) \wedge (\neg v1\_xboole\_0 X1)) \Rightarrow ((r2\_subset\_1 X0 X1) \Leftrightarrow (r1\_xboole\_0 X0 X1)) \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v2\_struct\_0 X0) \wedge ((v2\_unialg\_1 X0) \wedge ((v3\_unialg\_1 \\ X0) \wedge ((v4\_unialg\_1 X0) \wedge ((v2\_unialg\_2 X0) \wedge (l1\_unialg\_1 X0)))))) \Rightarrow \\ &(\neg v1\_xboole\_0 (k6\_unialg\_2 X0)) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0. (v1\_xboole\_0 X0) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)) \Rightarrow (v1\_xboole\_0 X1)) \quad (6)$$

**Theorem 1**

$$\begin{aligned} & \forall X0. ((\neg v2\_struct\_0 X0) \wedge (v2\_unialg\_1 X0) \wedge ((v3\_unialg\_1 \\ & X0) \wedge ((v4\_unialg\_1 X0) \wedge ((v2\_unialg\_2 X0) \wedge (l1\_unialg\_1 X0)))))) \Rightarrow \\ & (\forall X1. (m1\_unialg\_2 X1 X0) \Rightarrow (\forall X2. (m1\_unialg\_2 X2 X0) \Rightarrow \\ & (\neg r2\_subset\_1 (u1\_struct\_0 X1) (u1\_struct\_0 X2)))) \end{aligned}$$