

t3\_algstr\_3 (TM-  
Pqzu6GCCyMWfvnvdM6VixTHSokQoeMXyH)

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Let  $np\_1 : \iota$  be given. Let  $k5\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k3\_algstr\_3 : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $g1\_algstr\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $l2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $u2\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $l1\_algstr\_3 : \iota \Rightarrow o$  be given. Let  $u1\_algstr\_3 : \iota \Rightarrow \iota$  be given. Let  $l4\_struct\_0 : \iota \Rightarrow o$  be given. Let  $l3\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v1\_algstr\_3 : \iota \Rightarrow o$  be given. Let  $u3\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k2\_algstr\_3 : \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. ((m1\_subset\_1 X1 \\ & X0) \wedge ((m1\_subset\_1 X2 X0) \wedge ((v1\_funct\_1 X3) \wedge ((v1\_funct\_2 X3 (k3\_zfmisc\_1 \\ & X0 X0 X0) X0) \wedge (m1\_subset\_1 X3 (k1\_zfmisc\_1 (k2\_zfmisc\_1 (k3\_zfmisc\_1 \\ & X0 X0 X0) X0)))))) \Rightarrow (\forall X4. \forall X5. \forall X6. \forall X7. \\ & (g1\_algstr\_3 X0 X1 X2 X3 = g1\_algstr\_3 X4 X5 X6 X7) \Rightarrow ((X0 = X4) \wedge ((X1 = \\ & X5) \wedge ((X2 = X6) \wedge (X3 = X7)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. (l2\_struct\_0 X0) \Rightarrow (m1\_subset\_1 (u2\_struct\_0 X0) (u1\_struct\_0 X0)) \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. (l1\_algstr\_3 X0) \Rightarrow ((v1\_funct\_1 (u1\_algstr\_3 X0)) \wedge \\ & ((v1\_funct\_2 (u1\_algstr\_3 X0) (k3\_zfmisc\_1 (u1\_struct\_0 X0) ( \\ & u1\_struct\_0 X0) (u1\_struct\_0 X0)) (u1\_struct\_0 X0)) \wedge (m1\_subset\_1 \\ & (u1\_algstr\_3 X0) (k1\_zfmisc\_1 (k2\_zfmisc\_1 (k3\_zfmisc\_1 (u1\_struct\_0 \\ & X0) (u1\_struct\_0 X0) (u1\_struct\_0 X0)) (u1\_struct\_0 X0)))))) \end{aligned} \tag{3}$$

Assume the following.

$$\forall X0. (l4\_struct\_0 X0) \Rightarrow ((l2\_struct\_0 X0) \wedge (l3\_struct\_0 X0)) \tag{4}$$

Assume the following.

$$\forall X0.(l1\_algstr\_3 X0) \Rightarrow (l4\_struct\_0 X0) \quad (5)$$

Assume the following.

$$\forall X0.(l3\_struct\_0 X0) \Rightarrow (m1\_subset\_1 (k5\_struct\_0 X0) (u1\_struct\_0 X0)) \quad (6)$$

Assume the following.

$$(v1\_algstr\_3 k3\_algstr\_3) \wedge (l1\_algstr\_3 k3\_algstr\_3) \quad (7)$$

Assume the following.

$$\forall X0.(l3\_struct\_0 X0) \Rightarrow (k5\_struct\_0 X0 = u3\_struct\_0 X0) \quad (8)$$

Assume the following.

$$k3\_algstr\_3 = g1\_algstr\_3 k1\_numbers k6\_numbers np\_1 k2\_algstr\_3 \quad (9)$$

Assume the following.

$$\forall X0.(l1\_algstr\_3 X0) \Rightarrow ((v1\_algstr\_3 X0) \Rightarrow (X0 = g1\_algstr\_3 (u1\_struct\_0 X0) (u2\_struct\_0 X0) (u3\_struct\_0 X0) (u1\_algstr\_3 X0))) \quad (10)$$

**Theorem 1**  $np\_1 = k5\_struct\_0 k3\_algstr\_3$ .