

t8\_cgames\_1  
(TMd1EkamwZ64RaPmH37KgVCJjALTwyd5StP)

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Let  $k8\_cgames\_1 : \iota \Rightarrow \iota$  be given. Let  $k5\_cgames\_1 : \iota$  be given. Let  $k3\_cgames\_1 : \iota$  be given. Let  $k6\_cgames\_1 : \iota \Rightarrow \iota$  be given. Let  $k7\_cgames\_1 : \iota \Rightarrow \iota$  be given. Let  $v2\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $np\_1 : \iota$  be given. Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $g1\_cgames\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_cgames\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_cgames\_1 : \iota \Rightarrow o$  be given. Let  $l1\_cgames\_1 : \iota \Rightarrow o$  be given. Let  $v2\_cgames\_1 : \iota \Rightarrow o$  be given. Let  $u2\_cgames\_1 : \iota \Rightarrow \iota$  be given. Let  $u1\_cgames\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & ((v2\_xxreal\_0 \ np\_1) \wedge (m2\_subset\_1 \ np\_1 \ k1\_numbers \ k5\_numbers)) \wedge \\ & ((m1\_subset\_1 \ np\_1 \ k5\_numbers) \wedge (m1\_subset\_1 \ np\_1 \ k1\_numbers)) \end{aligned} \quad (1)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. k2\_xboole\_0 \ X0 \ X0 = X0 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. (g1\_cgames\_1 \ X0 \ X1 = g1\_cgames\_1 \ X2 \ X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3)) \quad (4)$$

Assume the following.

$$m1\_subset\_1 \ k5\_cgames\_1 \ (k2\_cgames\_1 \ np\_1) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. (v1\_cgames\_1 \ (g1\_cgames\_1 \ X0 \ X1)) \wedge (l1\_cgames\_1 \ (g1\_cgames\_1 \ X0 \ X1)) \quad (6)$$

Assume the following.

$$\forall X0.(v2\_cgames\_1 X0) \Rightarrow (k8\_cgames\_1 X0 = k2\_xboole\_0 (k6\_cgames\_1 X0) (k7\_cgames\_1 X0)) \quad (7)$$

Assume the following.

$$\forall X0.(v2\_cgames\_1 X0) \Rightarrow (\forall X1.(X1 = k7\_cgames\_1 X0) \Leftrightarrow (\exists X2.(l1\_cgames\_1 X2) \wedge ((X0 = X2) \wedge (X1 = u2\_cgames\_1 X2)))) \quad (8)$$

Assume the following.

$$\forall X0.(v2\_cgames\_1 X0) \Rightarrow (\forall X1.(X1 = k6\_cgames\_1 X0) \Leftrightarrow (\exists X2.(l1\_cgames\_1 X2) \wedge ((X0 = X2) \wedge (X1 = u1\_cgames\_1 X2)))) \quad (9)$$

Assume the following.

$$k5\_cgames\_1 = g1\_cgames\_1 (k1\_tarski k3\_cgames\_1) (k1\_tarski k3\_cgames\_1) \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1\_tarski X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (X2 = X0)) \quad (11)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k4\_ordinal1) \Rightarrow (v7\_ordinal1 X0) \quad (12)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (v3\_ordinal1 X0) \quad (13)$$

Assume the following.

$$\forall X0.(v3\_ordinal1 X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (k2\_cgames\_1 X0)) \Rightarrow (v2\_cgames\_1 X1)) \quad (14)$$

Assume the following.

$$\forall X0.(l1\_cgames\_1 X0) \Rightarrow ((v1\_cgames\_1 X0) \Rightarrow (X0 = g1\_cgames\_1 (u1\_cgames\_1 X0) (u2\_cgames\_1 X0))) \quad (15)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.((X0 \in k8\_cgames\_1 k5\_cgames\_1) \Rightarrow (X0 = k3\_cgames\_1)) \wedge \\ & (((X0 = k3\_cgames\_1) \Rightarrow (X0 \in k8\_cgames\_1 k5\_cgames\_1)) \wedge (((X0 \in k6\_cgames\_1 \\ & k5\_cgames\_1) \Rightarrow (X0 = k3\_cgames\_1)) \wedge (((X0 = k3\_cgames\_1) \Rightarrow (X0 \in k6\_cgames\_1 \\ & k5\_cgames\_1)) \wedge (((X0 \in k7\_cgames\_1 k5\_cgames\_1) \Rightarrow (X0 = k3\_cgames\_1)) \wedge \\ & ((X0 = k3\_cgames\_1) \Rightarrow (X0 \in k7\_cgames\_1 k5\_cgames\_1)))))) \end{aligned}$$