

# t44\_cgames\_1 (TMSkcVGSdDpB- WXX349qYqsWAqZTdhXV2T3)

October 27, 2020

Let  $v2\_cgames\_1 : \iota \Rightarrow o$  be given. Let  $v6\_cgames\_1 : \iota \Rightarrow o$  be given. Let  $k6\_cgames\_1 : \iota \Rightarrow \iota$  be given. Let  $k7\_cgames\_1 : \iota \Rightarrow \iota$  be given. Let  $v5\_cgames\_1 : \iota \Rightarrow o$  be given. Let  $k13\_cgames\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v2\_cgames\_1 X0) \Rightarrow ((v5\_cgames\_1 X0) \Leftrightarrow (\forall X1.(v2\_cgames\_1 X1) \Rightarrow (\neg(X1 \in k7\_cgames\_1 X0) \wedge (\forall X2.(v2\_cgames\_1 X2) \Rightarrow (\neg(X2 \in k6\_cgames\_1 X1) \wedge (v5\_cgames\_1 X2))))))) \quad (1)$$

Assume the following.

$$\forall X0.(v2\_cgames\_1 X0) \Rightarrow (k13\_cgames\_1 (k13\_cgames\_1 X0) = X0) \quad (2)$$

Assume the following.

$$\forall X0.(v2\_cgames\_1 X0) \Rightarrow ((\forall X1.(X1 \in k6\_cgames\_1 (k13\_cgames\_1 X0)) \Leftrightarrow (\exists X2.(v2\_cgames\_1 X2) \wedge ((X2 \in k7\_cgames\_1 X0) \wedge (X1 = k13\_cgames\_1 X2)))) \wedge (\forall X1.(X1 \in k7\_cgames\_1 (k13\_cgames\_1 X0)) \Leftrightarrow (\exists X2.(v2\_cgames\_1 X2) \wedge ((X2 \in k6\_cgames\_1 X0) \wedge (X1 = k13\_cgames\_1 X2)))))) \quad (3)$$

Assume the following.

$$\forall X0.(v2\_cgames\_1 X0) \Rightarrow (v2\_cgames\_1 (k13\_cgames\_1 X0)) \quad (4)$$

Assume the following.

$$\forall X0.(v2\_cgames\_1 X0) \Rightarrow ((v6\_cgames\_1 X0) \Leftrightarrow (v5\_cgames\_1 (k13\_cgames\_1 X0))) \quad (5)$$

## Theorem 1

$$\forall X0.(v2\_cgames\_1 X0) \Rightarrow ((v6\_cgames\_1 X0) \Leftrightarrow (\forall X1.(v2\_cgames\_1 X1) \Rightarrow (\neg(X1 \in k6\_cgames\_1 X0) \wedge (\forall X2.(v2\_cgames\_1 X2) \Rightarrow (\neg(X2 \in k7\_cgames\_1 X1) \wedge (v6\_cgames\_1 X2)))))))$$