

t15_cgames_1 (TMZCQWjd-
dTa7ymnV7oN8VDhUq7zmCGWsMJb)

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Let $v2_cgames_1 : \iota \Rightarrow o$ be given. Let $k6_cgames_1 : \iota \Rightarrow \iota$ be given. Let $k7_cgames_1 : \iota \Rightarrow \iota$ be given. Let $k9_cgames_1 : \iota \Rightarrow \iota$ be given. Let $k8_cgames_1 : \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v2_cgames_1 X0) \Rightarrow (\forall X1.(v2_cgames_1 X1) \Rightarrow ((X0 \in k8_cgames_1 X1) \Rightarrow (k9_cgames_1 X0 \in k9_cgames_1 X1))) \quad (1)$$

Assume the following.

$$\forall X0.(v2_cgames_1 X0) \Rightarrow (k8_cgames_1 X0 = k2_xboole_0 (k6_cgames_1 X0) (k7_cgames_1 X0)) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(X2 = k2_xboole_0 X0 X1) \Leftrightarrow (\forall X3.(X3 \in X2) \Leftrightarrow ((X3 \in X0) \vee (X3 \in X1))) \quad (3)$$

Theorem 1

$$\forall X0.(v2_cgames_1 X0) \Rightarrow (\forall X1.(v2_cgames_1 X1) \Rightarrow ((X0 \in k6_cgames_1 X1) \vee (X0 \in k7_cgames_1 X1)) \Rightarrow (k9_cgames_1 X0 \in k9_cgames_1 X1)))$$