t2_jgraph_1 (TMGnKWEeZUXFenuF5PotwomXM5fA9VVFDu1)

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Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_jgraph\_1 : \iota \Rightarrow \iota$ 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 $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $g1\_graph\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9\_funct\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10\_funct\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_graph\_1 : \iota \Rightarrow o$ be given. Let $l1\_graph\_1 : \iota \Rightarrow o$ be given. Let $u4\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $u1\_graph\_1 : \iota \Rightarrow \iota$ be given. Let $u2\_graph\_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(((v1\_funct\_1\ X2) \wedge ((v1\_funct\_2\ X2\ X1\ X0) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X1\ X0))))) \wedge ((v1\_funct\_1\ X3) \wedge ((v1\_funct\_2\ X3\ X1\ X0) \wedge (m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X1\ X0)))))) \Rightarrow (\forall X4.\forall X5.\forall X6.\forall X7.(g1\_graph\_1\ X0\ X1\ X2\ X3 = g1\_graph\_1\ X4\ X5\ X6\ X7) \Rightarrow ((X0 = X4) \wedge ((X1 = X5) \wedge ((X2 = X6) \wedge (X3 = X7)))))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(v1\_funct\_1\ (k9\_funct\_3\ X0\ X1)) \wedge ((v1\_funct\_2\ (k9\_funct\_3\ X0\ X1)\ (k2\_zfmisc\_1\ X0\ X1)\ X0) \wedge (m1\_subset\_1\ (k9\_funct\_3\ X0\ X1)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)\ X0)))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(v1\_funct\_1\ (k10\_funct\_3\ X0\ X1)) \wedge ((v1\_funct\_2\ (k10\_funct\_3\ X0\ X1)\ (k2\_zfmisc\_1\ X0\ X1)\ X1) \wedge (m1\_subset\_1\ (k10\_funct\_3\ X0\ X1)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)\ X1)))) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(((v1\_funct\_1\ X2) \wedge ((v1\_funct\_2\ X2\ X1\ X0) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X1\ X0))))) \wedge ((v1\_funct\_1\ X3) \wedge ((v1\_funct\_2\ X3\ X1\ X0) \wedge (m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X1\ X0)))))) \Rightarrow ((v1\_graph\_1\ (g1\_graph\_1\ X0\ X1\ X2\ X3)) \wedge (l1\_graph\_1\ (g1\_graph\_1\ X0\ X1\ X2\ X3))) \tag{4}$$

Assume the following.

$$\forall X0.k1\_jgraph\_1\ X0 = g1\_graph\_1\ X0\ (k2\_zfmisc\_1\ X0\ X0)\ (k9\_funct\_3\ X0\ X0)\ (k10\_funct\_3\ X0\ X0) \tag{5}$$

Assume the following.

$$\forall X0.(l1\_graph\_1\ X0) \Rightarrow ((v1\_graph\_1\ X0) \Rightarrow (X0 = g1\_graph\_1\ (u1\_struct\_0\ X0)\ (u4\_struct\_0\ X0)\ (u1\_graph\_1\ X0)\ (u2\_graph\_1\ X0))) \tag{6}$$

Theorem 1 $\forall X0.u1\_struct\_0\ (k1\_jgraph\_1\ X0) = X0.$