t107_gfacirc1 (TMdZd2arPstVeJzWDuMaB54ACEP4PPyXqAq)

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Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $k3\_msafree2 : \iota \Rightarrow \iota$ be given. Let $k43\_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v1\_circcomb : \iota \Rightarrow o$ be given. Let $v2\_circcomb : \iota \Rightarrow o$ be given. Let $l1\_msualg\_1 : \iota \Rightarrow o$ be given. Let $v11\_struct\_0 : \iota \Rightarrow o$ be given. Let $v1\_msualg\_1 : \iota \Rightarrow o$ be given. Let $v3\_circcomb : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v1\_circcomb\ X0) \wedge ((v2\_circcomb\ X0) \wedge (l1\_msualg\_1\ X0)))) \Rightarrow (v1\_relat\_1\ (k3\_msafree2\ X0)) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(\neg v2\_struct\_0\ (k43\_gfacirc1\ X0\ X1\ X2)) \wedge ((\neg v11\_struct\_0\ (k43\_gfacirc1\ X0\ X1\ X2)) \wedge ((v1\_msualg\_1\ (k43\_gfacirc1\ X0\ X1\ X2)) \wedge ((v1\_circcomb\ (k43\_gfacirc1\ X0\ X1\ X2)) \wedge ((v2\_circcomb\ (k43\_gfacirc1\ X0\ X1\ X2)) \wedge ((v3\_circcomb\ (k43\_gfacirc1\ X0\ X1\ X2)) \wedge (l1\_msualg\_1\ (k43\_gfacirc1\ X0\ X1\ X2))))))) \tag{2}$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.v1\_relat\_1\ (k3\_msafree2\ (k43\_gfacirc1\ X0\ X1\ X2))$$