t106_group_3 (TMFpUXYxicDynNJLvcb4qBt8zAdiRgG5ipG)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_group\_1 : \iota \Rightarrow o$ be given. Let $v3\_group\_1 : \iota \Rightarrow o$ be given. Let $l3\_algstr\_0 : \iota \Rightarrow o$ be given. Let $m1\_group\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9\_group\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v15\_algstr\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_group\_3 : \iota \Rightarrow \iota$ be given. Let $r5\_group\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.(((\neg v2\_struct\_0\ X0) \wedge ((v2\_group\_1\ X0) \wedge ((v3\_group\_1\ X0) \wedge (l3\_algstr\_0\ X0)))) \wedge (m1\_group\_2\ X1\ X0)) \Rightarrow (m1\_subset\_1\ (k9\_group\_3\ X0\ X1)\ (k1\_zfmisc\_1\ (k1\_group\_3\ X0))) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_group\_1\ X0) \wedge ((v3\_group\_1\ X0) \wedge (l3\_algstr\_0\ X0)))) \Rightarrow (\forall X1.(m1\_group\_2\ X1\ X0) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k1\_group\_3\ X0))) \Rightarrow ((X2 = k9\_group\_3\ X0\ X1) \Leftrightarrow (\forall X3.(X3 \in X2) \Leftrightarrow (\exists X4.((v15\_algstr\_0\ X4) \wedge (m1\_group\_2\ X4\ X0)) \wedge ((X3 = X4) \wedge (r5\_group\_3\ X0\ X1\ X4))))))) \tag{2}$$

Theorem 1

$$\forall X0.\forall X1.((\neg v2\_struct\_0\ X1) \wedge ((v2\_group\_1\ X1) \wedge ((v3\_group\_1\ X1) \wedge (l3\_algstr\_0\ X1)))) \Rightarrow (\forall X2.(m1\_group\_2\ X2\ X1) \Rightarrow ((X0 \in k9\_group\_3\ X1\ X2) \Rightarrow ((v15\_algstr\_0\ X0) \wedge (m1\_group\_2\ X0\ X1))))$$