l10_algstr_1 (TM-Reg3i3RoayWocdewuMKfKqE2HpbKS32NN)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k3\_algstr\_0 : \iota$ be given. Let $k1\_algstr\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ k3\_algstr\_0)) \Rightarrow (\forall X1.\ (m1\_subset\_1\ X1\ (u1\_struct\_0\ k3\_algstr\_0)) \Rightarrow (X0 = X1)) \tag{1}$$

Theorem 1

$$(\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ k3\_algstr\_0)) \Rightarrow (\forall X1.\ (m1\_subset\_1\ X1\ (u1\_struct\_0\ k3\_algstr\_0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ k3\_algstr\_0)) \Rightarrow ((k1\_algstr\_0\ k3\_algstr\_0\ X0\ X1 = k1\_algstr\_0\ k3\_algstr\_0\ X0\ X2) \Rightarrow (X1 = X2))))) \wedge (\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ k3\_algstr\_0)) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ k3\_algstr\_0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ k3\_algstr\_0)) \Rightarrow ((k1\_algstr\_0\ k3\_algstr\_0\ X1\ X0 = k1\_algstr\_0\ k3\_algstr\_0\ X2\ X0) \Rightarrow (X1 = X2)))))$$