l13_ec_pf_1 (TMUz7XM2E2kxiu4X9oamAbCbhPYCCgjE8ZL)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $l3\_algstr\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $k1\_binop\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_group\_1 : \iota \Rightarrow \iota$ 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 $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_laplace : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(((\neg v2\_struct\_0\ X0) \wedge (l3\_algstr\_0\ X0)) \wedge (((v1\_funct\_1\ X1) \wedge ((v1\_funct\_2\ X1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ k5\_numbers)\ (u1\_struct\_0\ X0)) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ k5\_numbers)\ (u1\_struct\_0\ X0)))))) \wedge ((m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \wedge (v7\_ordinal1\ X3)))) \Rightarrow (k1\_laplace\ X0\ X1\ X2\ X3 = k1\_binop\_1\ X1\ X2\ X3) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l3\_algstr\_0\ X0)) \Rightarrow ((v1\_funct\_1\ (k4\_group\_1\ X0)) \wedge ((v1\_funct\_2\ (k4\_group\_1\ X0)\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ k5\_numbers)\ (u1\_struct\_0\ X0)) \wedge (m1\_subset\_1\ (k4\_group\_1\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ k5\_numbers)\ (u1\_struct\_0\ X0))))))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(((\neg v2\_struct\_0\ X0) \wedge (l3\_algstr\_0\ X0)) \wedge (((v1\_funct\_1\ X1) \wedge ((v1\_funct\_2\ X1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ k5\_numbers)\ (u1\_struct\_0\ X0)) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ k5\_numbers)\ (u1\_struct\_0\ X0)))))) \wedge ((m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \wedge (v7\_ordinal1\ X3)))) \Rightarrow (m1\_subset\_1\ (k1\_laplace\ X0\ X1\ X2\ X3)\ (u1\_struct\_0\ X0)) \tag{3}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l3\_algstr\_0\ X0))\Rightarrow(\forall X1.$$
$$(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))\Rightarrow(\forall X2.(v7\_ordinal1\ X2)\Rightarrow$$
$$(m1\_subset\_1\ (k1\_binop\_1\ (k4\_group\_1\ X0)\ X1\ X2)\ (u1\_struct\_0\ X0))))$$