t40_afvect0 (TMXkgXXPY-icwHkFnVM27gGe5pyjLNgM9Ttt)

October 27, 2020

Let $v7\_struct\_0 : \iota \Rightarrow o$ be given. Let $v1\_afvect0 : \iota \Rightarrow o$ be given. Let $l1\_analoaf : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_afvect0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r2\_afvect0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v7\_struct\_0\ X0) \wedge ((v1\_afvect0\ X0) \wedge (l1\_analoaf\ X0))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow (\exists X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X0)) \wedge (r2\_afvect0\ X0\ X1\ X3\ X2)))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v7\_struct\_0\ X0) \wedge ((v1\_afvect0\ X0) \wedge (l1\_analoaf\ X0))) \wedge ((m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \wedge (m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)))) \Rightarrow (m1\_subset\_1\ (k1\_afvect0\ X0\ X1\ X2)\ (u1\_struct\_0\ X0)) \tag{2}$$

Assume the following.

$$\forall X0.((\neg v7\_struct\_0\ X0) \wedge ((v1\_afvect0\ X0) \wedge (l1\_analoaf\ X0))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X0)) \Rightarrow ((X3 = k1\_afvect0\ X0\ X1\ X2) \Leftrightarrow (r2\_afvect0\ X0\ X2\ X1\ X3))))) \tag{3}$$

Theorem 1

$$\forall X0.((\neg v7\_struct\_0\ X0) \wedge ((v1\_afvect0\ X0) \wedge (l1\_analoaf\ X0))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ X0)) \Rightarrow (\exists X5.(m1\_subset\_1\ X5\ (u1\_struct\_0\ X0)) \wedge (k1\_afvect0\ X0\ X1\ (k1\_afvect0\ X0\ X2\ (k1\_afvect0\ X0\ X3\ X4)) = k1\_afvect0\ X0\ X5\ X4))))))$$