

t12_sf_mastr
(TMYYzbE2ovtYrjkqegpkNdm5t4hrWfT8v8i)

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Let $v1_ami_2 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_scmf_sa_2 : \iota$ be given. Let $m1_scmf_sa_2 : \iota \Rightarrow o$ be given. Let $k17_scmf_sa_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xtuple_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k16_scmf_sa_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_12 : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k10_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_11 : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ & (k3_xtuple_0 X0 X1 X2 = k3_xtuple_0 X3 X4 X5) \Rightarrow ((X0 = X3) \wedge ((X1 = X4) \wedge \\ & \quad (X2 = X5))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v1_ami_2 X0) \wedge (m1_subset_1 X0 (u1_struct_0 k1_scmf_sa_2))) \Rightarrow \\ & (\forall X1. ((v1_ami_2 X1) \wedge (m1_subset_1 X1 (u1_struct_0 k1_scmf_sa_2))) \Rightarrow \\ & \quad (\forall X2. (m1_scmf_sa_2 X2) \Rightarrow (\forall X3. (m1_scmf_sa_2 X3) \Rightarrow (\\ & \quad (k16_scmf_sa_2 X0 X2 = k16_scmf_sa_2 X1 X3) \Rightarrow ((X0 = X1) \wedge (X2 = X3)))))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v1_ami_2 X0) \wedge (m1_subset_1 X0 (u1_struct_0 k1_scmf_sa_2))) \Rightarrow \\ & (\forall X1. (m1_scmf_sa_2 X1) \Rightarrow (k17_scmf_sa_2 X0 X1 = k3_xtuple_0 \\ & \quad np_12 k1_xboole_0 (k10_finseq_1 X0 X1))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v1_ami_2 X0) \wedge (m1_subset_1 X0 (u1_struct_0 k1_scmf_sa_2))) \Rightarrow \\ & (\forall X1. (m1_scmf_sa_2 X1) \Rightarrow (k16_scmf_sa_2 X0 X1 = k3_xtuple_0 \\ & \quad np_11 k1_xboole_0 (k10_finseq_1 X0 X1))) \end{aligned} \tag{4}$$

Theorem 1

$$\begin{aligned} & \forall X0. ((v1_ami_2 X0) \wedge (m1_subset_1 X0 (u1_struct_0 k1_scmf_sa_2))) \Rightarrow \\ & (\forall X1. ((v1_ami_2 X1) \wedge (m1_subset_1 X1 (u1_struct_0 k1_scmf_sa_2))) \Rightarrow \\ & \quad (\forall X2. (m1_scmf_sa_2 X2) \Rightarrow (\forall X3. (m1_scmf_sa_2 X3) \Rightarrow (\\ & \quad (k17_scmf_sa_2 X0 X2 = k17_scmf_sa_2 X1 X3) \Rightarrow ((X0 = X1) \wedge (X2 = X3)))))) \end{aligned}$$