t115_scmyciel (TMQRx8wcdbmozPGAprSZMTDv4YPD27SR3b7)

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Let $v4\_scmyciel : \iota \Rightarrow o$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13\_scmyciel : \iota \Rightarrow \iota$ be given. Let $k1\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k12\_scmyciel : \iota \Rightarrow \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6\_numbers : \iota$ be given. Assume the following.

$$\forall X0.\forall X1.((v4\_scmyciel\ X0) \wedge (v7\_ordinal1\ X1)) \Rightarrow (v4\_scmyciel\ (k1\_funct\_1\ (k13\_scmyciel\ X0)\ X1)) \tag{1}$$

Assume the following.

$$\forall X0.(v4\_scmyciel\ X0) \Rightarrow ((v1\_relat\_1\ (k13\_scmyciel\ X0)) \wedge ((v4\_relat\_1\ (k13\_scmyciel\ X0)\ k5\_numbers) \wedge ((v1\_funct\_1\ (k13\_scmyciel\ X0)) \wedge (v1\_partfun1\ (k13\_scmyciel\ X0)\ k5\_numbers)))) \tag{2}$$

Assume the following.

$$\forall X0.(v4\_scmyciel\ X0) \Rightarrow (\forall X1.((v1\_relat\_1\ X1) \wedge ((v4\_relat\_1\ X1\ k5\_numbers) \wedge ((v1\_funct\_1\ X1) \wedge (v1\_partfun1\ X1\ k5\_numbers)))) \Rightarrow ((X1 = k13\_scmyciel\ X0) \Leftrightarrow (\exists X2.((v1\_relat\_1\ X2) \wedge (v1\_funct\_1\ X2)) \wedge ((X1 = X2) \wedge ((k1\_funct\_1\ X2\ k6\_numbers = X0) \wedge (\forall X3.(v7\_ordinal1\ X3) \Rightarrow (\forall X4.(v4\_scmyciel\ X4) \Rightarrow ((X4 = k1\_funct\_1\ X2\ X3) \Rightarrow (k1\_funct\_1\ X2\ (k1\_nat\_1\ X3\ np\_\_1) = k12\_scmyciel\ X4)))))))) \tag{3}$$

Theorem 1

$$\forall X0.(v4\_scmyciel\ X0) \Rightarrow (\forall X1.(v4\_scmyciel\ X1) \Rightarrow (\forall X2.(v7\_ordinal1\ X2) \Rightarrow (k1\_funct\_1\ (k13\_scmyciel\ X0)\ (k1\_nat\_1\ X2\ np\_\_1) = k12\_scmyciel\ (k1\_funct\_1\ (k13\_scmyciel\ X0)\ X2))))$$