t25_calcul_2 (TMGM-rypecAZbgKQZqSJK4K4scbdYcWfTqTa)

October 27, 2020

Let $m1\_qc\_lang1 : \iota \Rightarrow o$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9\_qc\_lang1 : \iota \Rightarrow \iota$ be given. Let $k3\_cqc\_lang : \iota \Rightarrow \iota$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r4\_calcul\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_cqc\_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8\_cqc\_lang : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9\_cqc\_lang : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(m1\_qc\_lang1\ X0) \Rightarrow (\forall X1.(m2\_subset\_1\ X1\ (k9\_qc\_lang1\ X0)\ (k3\_cqc\_lang\ X0)) \Rightarrow (\forall X2.(m2\_subset\_1\ X2\ (k9\_qc\_lang1\ X0)\ (k3\_cqc\_lang\ X0)) \Rightarrow (\forall X3.(m2\_finseq\_1\ X3\ (k3\_cqc\_lang\ X0)) \Rightarrow (((r4\_calcul\_1\ X0\ (k8\_finseq\_1\ (k3\_cqc\_lang\ X0)\ X3\ (k12\_finseq\_1\ (k3\_cqc\_lang\ X0)\ (k8\_cqc\_lang\ X0\ X1\ X2)))) \wedge (r4\_calcul\_1\ X0\ (k8\_finseq\_1\ (k3\_cqc\_lang\ X0)\ X3\ (k12\_finseq\_1\ (k3\_cqc\_lang\ X0)\ X1)))) \Rightarrow (r4\_calcul\_1\ X0\ (k8\_finseq\_1\ (k3\_cqc\_lang\ X0)\ X3\ (k12\_finseq\_1\ (k3\_cqc\_lang\ X0)\ X2)))))))) \tag{1}$$

Assume the following.

$$\forall X0.(m1\_qc\_lang1\ X0) \Rightarrow (\forall X1.(m2\_subset\_1\ X1\ (k9\_qc\_lang1\ X0)\ (k3\_cqc\_lang\ X0)) \Rightarrow (\forall X2.(m2\_subset\_1\ X2\ (k9\_qc\_lang1\ X0)\ (k3\_cqc\_lang\ X0)) \Rightarrow (\forall X3.(m2\_finseq\_1\ X3\ (k3\_cqc\_lang\ X0)) \Rightarrow ((r4\_calcul\_1\ X0\ (k8\_finseq\_1\ (k3\_cqc\_lang\ X0)\ X3\ (k12\_finseq\_1\ (k3\_cqc\_lang\ X0)\ X1))) \Rightarrow (r4\_calcul\_1\ X0\ (k8\_finseq\_1\ (k3\_cqc\_lang\ X0)\ X3\ (k12\_finseq\_1\ (k3\_cqc\_lang\ X0)\ (k9\_cqc\_lang\ X0\ X1\ X2)))))))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0) \wedge ((\neg v1\_xboole\_0\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0)))) \Rightarrow (\forall X2.(m2\_subset\_1\ X2\ X0\ X1) \Leftrightarrow (m1\_subset\_1\ X2\ X1)) \tag{3}$$

Assume the following.

$$\forall X0.(m1\_qc\_lang1\ X0)\Rightarrow(\forall X1.(m2\_subset\_1\ X1\ (k9\_qc\_lang1\ X0)\ (k3\_cqc\_lang\ X0))\Rightarrow(\forall X2.(m2\_subset\_1\ X2\ (k9\_qc\_lang1\ X0)\ (k3\_cqc\_lang\ X0))\Rightarrow(k9\_cqc\_lang\ X0\ X1\ X2 = k8\_cqc\_lang\ X0\ (k6\_cqc\_lang\ X0\ X1)\ X2))) \tag{4}$$

Assume the following.

$$\forall X0.(m1\_qc\_lang1\ X0)\Rightarrow(\neg v1\_xboole\_0\ (k3\_cqc\_lang\ X0)) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_qc\_lang1\ X0)\wedge(m1\_subset\_1\ X1\ (k3\_cqc\_lang\ X0)))\Rightarrow(m2\_subset\_1\ (k6\_cqc\_lang\ X0\ X1)\ (k9\_qc\_lang1\ X0)\ (k3\_cqc\_lang\ X0)) \tag{6}$$

Assume the following.

$$\forall X0.(m1\_qc\_lang1\ X0)\Rightarrow(m1\_subset\_1\ (k3\_cqc\_lang\ X0)\ (k1\_zfmisc\_1\ (k9\_qc\_lang1\ X0))) \tag{7}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))\Rightarrow(v1\_xboole\_0\ X1)) \tag{8}$$

Theorem 1

$$\forall X0.(m1\_qc\_lang1\ X0)\Rightarrow(\forall X1.(m2\_subset\_1\ X1\ (k9\_qc\_lang1\ X0)\ (k3\_cqc\_lang\ X0))\Rightarrow(\forall X2.(m2\_subset\_1\ X2\ (k9\_qc\_lang1\ X0)\ (k3\_cqc\_lang\ X0))\Rightarrow(\forall X3.(m2\_finseq\_1\ X3\ (k3\_cqc\_lang\ X0))\Rightarrow(((r4\_calcul\_1\ X0\ (k8\_finseq\_1\ (k3\_cqc\_lang\ X0)\ X3\ (k12\_finseq\_1\ (k3\_cqc\_lang\ X0)\ X1)))\wedge(r4\_calcul\_1\ X0\ (k8\_finseq\_1\ (k3\_cqc\_lang\ X0)\ X3\ (k12\_finseq\_1\ (k3\_cqc\_lang\ X0)\ (k6\_cqc\_lang\ X0\ X1)))))\Rightarrow(r4\_calcul\_1\ X0\ (k8\_finseq\_1\ (k3\_cqc\_lang\ X0)\ X3\ (k12\_finseq\_1\ (k3\_cqc\_lang\ X0)\ X2)))))))$$