t12_mfold_2 (TMVQk-paAZ5xSaSnqiJWYn2gK8qwwwVTxjiR)

October 27, 2020

Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_pre\_topc : \iota \Rightarrow o$ be given. Let $l1\_pre\_topc : \iota \Rightarrow o$ be given. Let $v3\_mfold\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_mfold\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5\_waybel23 : \iota \Rightarrow o$ be given. Let $v2\_mfold\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v8\_pre\_topc : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0)) \Rightarrow (\forall X1.\ ((v2\_pre\_topc\ X1) \wedge (l1\_pre\_topc\ X1)) \Rightarrow (((v5\_waybel23\ X0) \wedge (r1\_mfold\_2\ X0\ X1)) \Rightarrow (v5\_waybel23\ X1))) \tag{1}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge ((v2\_pre\_topc\ X1) \wedge (l1\_pre\_topc\ X1))) \Rightarrow (\forall X2.((\neg v2\_struct\_0\ X2) \wedge ((v2\_pre\_topc\ X2) \wedge (l1\_pre\_topc\ X2))) \Rightarrow (((v2\_mfold\_1\ X1\ X0) \wedge (r1\_mfold\_2\ X1\ X2)) \Rightarrow (v2\_mfold\_1\ X2\ X0)))) \tag{2}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0))) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge ((v2\_pre\_topc\ X1) \wedge (l1\_pre\_topc\ X1))) \Rightarrow (((v8\_pre\_topc\ X0) \wedge (r1\_mfold\_2\ X0\ X1)) \Rightarrow (v8\_pre\_topc\ X1))) \tag{3}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(l1\_pre\_topc\ X1) \Rightarrow ((\neg v2\_struct\_0\ X1) \wedge ((v2\_pre\_topc\ X1) \wedge ((v8\_pre\_topc\ X1) \wedge ((v5\_waybel23\ X1) \wedge (v2\_mfold\_1\ X1\ X0))))) \Rightarrow ((\neg v2\_struct\_0\ X1) \wedge ((v2\_pre\_topc\ X1) \wedge (v3\_mfold\_1\ X1\ X0))))) \tag{4}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(\forall X1.(l1\_pre\_topc\ X1)\Rightarrow((\neg v2\_struct\_0\ X1)\wedge((v2\_pre\_topc\ X1)\wedge(v3\_mfold\_1\ X1\ X0)))\Rightarrow((\neg v2\_struct\_0\ X1)\wedge((v2\_pre\_topc\ X1)\wedge((v8\_pre\_topc\ X1)\wedge((v5\_waybel23\ X1)\wedge(v2\_mfold\_1\ X1\ X0)))))) \tag{5}$$

Theorem 1

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(\forall X1.((\neg v2\_struct\_0\ X1)\wedge((v2\_pre\_topc\ X1)\wedge(l1\_pre\_topc\ X1)))\Rightarrow(\forall X2.((\neg v2\_struct\_0\ X2)\wedge((v2\_pre\_topc\ X2)\wedge(l1\_pre\_topc\ X2)))\Rightarrow(((v3\_mfold\_1\ X1\ X0)\wedge(r1\_mfold\_2\ X1\ X2))\Rightarrow(v3\_mfold\_1\ X2\ X0))))$$