

# t85\_sheffer2 (TMYnAyAG- mEWSnH6aezEZiyGQ2JYddX1KFNr)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v10\_sheffer1 : \iota \Rightarrow o$  be given. Let  $v11\_sheffer1 : \iota \Rightarrow o$  be given. Let  $v12\_sheffer1 : \iota \Rightarrow o$  be given. Let  $l1\_sheffer1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k5\_sheffer1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v10\_sheffer1 X0) \wedge ((v11\_sheffer1 \\ & X0) \wedge ((v12\_sheffer1 X0) \wedge (l1\_sheffer1 X0)))))) \Rightarrow (\forall X1. (m1\_subset\_1 \\ & X1 (u1\_struct\_0 X0)) \Rightarrow (\forall X2. (m1\_subset\_1 X2 (u1\_struct\_0 \\ & X0)) \Rightarrow (k5\_sheffer1 X0 X2 X1 = k5\_sheffer1 X0 (k5\_sheffer1 X0 (k5\_sheffer1 \\ & X0 X1 X1) (k5\_sheffer1 X0 X1 X1)) X2))) \end{aligned} \tag{1}$$

## Theorem 1

$$\begin{aligned} & \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v10\_sheffer1 X0) \wedge ((v11\_sheffer1 \\ & X0) \wedge ((v12\_sheffer1 X0) \wedge (l1\_sheffer1 X0)))))) \Rightarrow (\forall X1. (m1\_subset\_1 \\ & X1 (u1\_struct\_0 X0)) \Rightarrow (\forall X2. (m1\_subset\_1 X2 (u1\_struct\_0 \\ & X0)) \Rightarrow (k5\_sheffer1 X0 (k5\_sheffer1 X0 X2 X1) (k5\_sheffer1 X0 X2 X1) = \\ & k5\_sheffer1 X0 (k5\_sheffer1 X0 (k5\_sheffer1 X0 (k5\_sheffer1 X0 \\ & X1 X1) (k5\_sheffer1 X0 X1 X1)) X2) (k5\_sheffer1 X0 (k5\_sheffer1 X0 \\ & (k5\_sheffer1 X0 X1 X1) (k5\_sheffer1 X0 X1 X1)) X2)))) \end{aligned}$$