

# t44\_polyform (TMNo- HZvpT8YB9D1HptPrAM7D5uoXxVwjirm)

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Let  $v2\_polyform : \iota \Rightarrow o$  be given. Let  $v3\_polyform : \iota \Rightarrow o$  be given. Let  $v4\_polyform : \iota \Rightarrow o$  be given. Let  $l1\_polyform : \iota \Rightarrow o$  be given. Let  $v1\_int\_1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k17\_polyform : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k8\_polyform : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_bspace : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned}
 & \forall X0.((v2\_polyform X0) \wedge ((v3\_polyform X0) \wedge ((v4\_polyform \\
 & \quad X0) \wedge (l1\_polyform X0)))) \Rightarrow (\forall X1.(v1\_int\_1 X1) \Rightarrow (\forall X2. \\
 & \quad (m1\_subset\_1 X2 (u1\_struct\_0 (k17\_polyform X0 X1))) \Rightarrow (\forall X3. \\
 & \quad (m1\_subset\_1 X3 (u1\_struct\_0 (k17\_polyform X0 X1))) \Rightarrow ((X2 = X3) \Leftrightarrow \\
 & \quad (\forall X4.(m1\_subset\_1 X4 (k8\_polyform X0 X1)) \Rightarrow (k3\_bspace X2 \\
 & \quad \quad X4 = k3\_bspace X3 X4))))))
 \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (k3\_bspace X0 X2 = k3\_bspace X1 X2) \Leftrightarrow ((X2 \in X0) \Leftrightarrow (X2 \in X1)) \tag{2}$$

## Theorem 1

$$\begin{aligned}
 & \forall X0.((v2\_polyform X0) \wedge ((v3\_polyform X0) \wedge ((v4\_polyform \\
 & \quad X0) \wedge (l1\_polyform X0)))) \Rightarrow (\forall X1.(v1\_int\_1 X1) \Rightarrow (\forall X2. \\
 & \quad (m1\_subset\_1 X2 (u1\_struct\_0 (k17\_polyform X0 X1))) \Rightarrow (\forall X3. \\
 & \quad (m1\_subset\_1 X3 (u1\_struct\_0 (k17\_polyform X0 X1))) \Rightarrow ((X2 = X3) \Leftrightarrow \\
 & \quad (\forall X4.(m1\_subset\_1 X4 (k8\_polyform X0 X1)) \Rightarrow ((X4 \in X2) \Leftrightarrow (X4 \in \\
 & \quad \quad X3))))))
 \end{aligned}$$