

t6\_polyeq\_3  
(TMEzf3a62ifcuyjZFRDCz6Sn84QiF5RXRn1)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  be given. Let  $k7\_polyeq\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (\forall X2. \\ & (v1\_xreal\_0 X2) \Rightarrow (\forall X3.(v1\_xreal\_0 X3) \Rightarrow (\forall X4.(v1\_xreal\_0 \\ & X4) \Rightarrow (\forall X5.(v1\_xreal\_0 X5) \Rightarrow (\forall X6.(v1\_xreal\_0 X6) \Rightarrow \\ & (\forall X7.(v1\_xreal\_0 X7) \Rightarrow ((\forall X8.(v1\_xreal\_0 X8) \Rightarrow (k7\_polyeq\_1 \\ X0 X1 X2 X3 X8 = k7\_polyeq\_1 X4 X5 X6 X7 X8)) \Rightarrow ((X0 = X4) \wedge ((X1 = X5) \wedge (( \\ & X2 = X6) \wedge (X3 = X7)))))))))))))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (v1\_xcmplx\_0 X0) \tag{2}$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (v1\_xreal\_0 X0) \tag{3}$$

**Theorem 1**

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1 \\ & X1 k1\_numbers) \Rightarrow (\forall X2.(m1\_subset\_1 X2 k1\_numbers) \Rightarrow (\forall X3. \\ & (m1\_subset\_1 X3 k1\_numbers) \Rightarrow (\forall X4.(m1\_subset\_1 X4 k1\_numbers) \Rightarrow \\ & (\forall X5.(m1\_subset\_1 X5 k1\_numbers) \Rightarrow (\forall X6.(m1\_subset\_1 \\ & X6 k1\_numbers) \Rightarrow (\forall X7.(m1\_subset\_1 X7 k1\_numbers) \Rightarrow ((\forall X8. \\ & (v1\_xcmplx\_0 X8) \Rightarrow (k7\_polyeq\_1 X0 X1 X2 X3 X8 = k7\_polyeq\_1 X4 X5 X6 \\ & X7 X8)) \Rightarrow ((X0 = X4) \wedge ((X1 = X5) \wedge ((X2 = X6) \wedge (X3 = X7)))))))))))))) \end{aligned}$$