

t88\_prepower  
(TMcZdL2SfK3eEyEJ6pFscqobVHPZiethxk8)

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Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_1 : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k9\_prepower : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v2\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_0 : \iota$  be given. Let  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_xcmplx\_0 : \iota \Rightarrow \iota$  be given. Let  $c5\_xreal\_0 : \iota$  be given. Let  $k1\_arytm\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $c3\_xreal\_0 : \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (\forall X2. \\ & (v1\_xreal\_0 X2) \Rightarrow (\neg(\neg r1\_xxreal\_0 X0 np\_1) \wedge ((\neg r1\_xxreal\_0 X1 \\ & X2) \wedge (r1\_xxreal\_0 (k9\_prepower X0 X1) (k9\_prepower X0 X2)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow ((\neg r1\_xxreal\_0 X0 k6\_numbers) \Rightarrow (k9\_prepower X0 k6\_numbers = np\_1)) \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (\forall X2. \\ & (v1\_xreal\_0 X2) \Rightarrow (\neg(r1\_xxreal\_0 k6\_numbers X0) \wedge ((\neg r1\_xxreal\_0 \\ & X2 X1) \wedge (r1\_xxreal\_0 X2 (k6\_xcmplx\_0 X1 X0)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & ((v2\_xxreal\_0 np\_1) \wedge (m2\_subset\_1 np\_1 k1\_numbers k5\_numbers)) \wedge \\ & ((m1\_subset\_1 np\_1 k5\_numbers) \wedge (m1\_subset\_1 np\_1 k1\_numbers)) \end{aligned} \quad (4)$$

Assume the following.

$$(m2\_subset\_1 np\_0 k1\_numbers k5\_numbers) \wedge ((m1\_subset\_1 np\_0 k5\_numbers) \wedge (m1\_subset\_1 np\_0 k1\_numbers)) \quad (5)$$

Assume the following.

$$k6\_xcmplx\_0 np\_1 np\_1 = np\_0 \quad (6)$$

Assume the following.

$$k2\_xcmplx\_0 \ np\_1 \ (k4\_xcmplx\_0 \ np\_1) = np\_0 \quad (7)$$

Assume the following.

$$r1\_xxreal\_0 \ np\_1 \ np\_1 \quad (8)$$

Assume the following.

$$r1\_xxreal\_0 \ np\_0 \ np\_1 \quad (9)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1\_xreal\_0 \ X0) \Rightarrow (\forall X1.(v1\_xreal\_0 \ X1) \Rightarrow (\forall X2. \\ & (v1\_xreal\_0 \ X2) \Rightarrow (((r1\_xxreal\_0 \ X0 \ X1) \wedge (r1\_xxreal\_0 \ X1 \ X2)) \Rightarrow ( \\ & r1\_xxreal\_0 \ X0 \ X2)))) \end{aligned} \quad (10)$$

Assume the following.

$$(c5\_xreal\_0 = k4\_xcmplx\_0 \ np\_1) \wedge (k1\_arytm\_0 \ c3\_xreal\_0 \ c5\_xreal\_0 = k6\_numbers) \quad (11)$$

Assume the following.

$$k2\_xcmplx\_0 \ np\_1 \ (k4\_xcmplx\_0 \ np\_1) = k6\_numbers \quad (12)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0 \ X0) \wedge (v1\_xreal\_0 \ X1)) \Rightarrow (v1\_xreal\_0 \ (k9\_prepower \ X0 \ X1)) \quad (13)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 \ X0 \ k1\_numbers) \Rightarrow (v1\_xreal\_0 \ X0) \quad (14)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.(v1\_xreal\_0 \ X0) \Rightarrow (\forall X1.(v1\_xreal\_0 \ X1) \Rightarrow (\neg(\neg \\ & r1\_xxreal\_0 \ X0 \ np\_1) \wedge (\neg r1\_xxreal\_0 \ k6\_numbers \ X1) \wedge (r1\_xxreal\_0 \ np\_1 \ (k9\_prepower \ X0 \ X1)))) \end{aligned}$$