

t4\_chord  
 (TMThxLZV8Tkxc6Lyswz6BeKEusquzBbGkSz)

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Let  $v1\_int\_1 : \iota \Rightarrow o$  be given. Let  $v1\_abian : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $v2\_xreal\_0 : \iota \Rightarrow o$  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. Assume the following.

$$\forall X0.((v1\_int\_1 X0) \wedge (\neg v1\_abian X0)) \Rightarrow (\forall X1.((v1\_int\_1 X1) \wedge (\neg v1\_abian X1)) \Rightarrow ((\neg r1\_xxreal\_0 X1 X0) \Rightarrow (r1\_xxreal\_0 X0 (k6\_xcmplx\_0 X1 np\_2)))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (\forall X2.(v1\_xreal\_0 X2) \Rightarrow ((r1\_xxreal\_0 (k2\_xcmplx\_0 X0 X1) X2) \Leftrightarrow (r1\_xxreal\_0 X0 (k6\_xcmplx\_0 X2 X1)))))) \tag{2}$$

Assume the following.

$$((v2\_xreal\_0 np\_2) \wedge (m2\_subset\_1 np\_2 k1\_numbers k5\_numbers)) \wedge ((m1\_subset\_1 np\_2 k5\_numbers) \wedge (m1\_subset\_1 np\_2 k1\_numbers)) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_int\_1 X0) \Rightarrow (v1\_xreal\_0 X0) \tag{4}$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (v1\_xreal\_0 X0) \tag{5}$$

**Theorem 1**

$$\forall X0.((v1\_int\_1 X0) \wedge (\neg v1\_abian X0)) \Rightarrow (\forall X1.((v1\_int\_1 X1) \wedge (\neg v1\_abian X1)) \Rightarrow ((\neg r1\_xxreal\_0 X0 X1) \Rightarrow (r1\_xxreal\_0 (k2\_xcmplx\_0 X1 np\_2) X0)))$$