

## t3\_entropy1

(TMKAUAzH74ns5ttN5tjL3phPKToN9N2XvcJ)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k6\_power : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k8\_power : \iota$  be given. Let  $k9\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k1\_seq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_taylor\_1 : \iota$  be given. Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow ((\neg r1\_xxreal\_0 X0 k6\_numbers) \Rightarrow (k6\_power k8\_power X0 = k1\_seq\_1 k3\_taylor\_1 X0)) \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow & ((\neg r1\_xxreal\_0 X0 k6\_numbers) \Rightarrow \\ & ((r1\_xxreal\_0 (k1\_seq\_1 k3\_taylor\_1 X0) (k9\_real\_1 X0 np\_1)) \wedge \\ & (((X0 = np\_1) \Rightarrow (k1\_seq\_1 k3\_taylor\_1 X0 = k9\_real\_1 X0 np\_1)) \wedge \\ & (((k1\_seq\_1 k3\_taylor\_1 X0 = k9\_real\_1 X0 np\_1) \Rightarrow (X0 = np\_1)) \wedge \\ & ((\neg (X0 \neq np\_1) \wedge (r1\_xxreal\_0 (k9\_real\_1 X0 np\_1) (k1\_seq\_1 k3\_taylor\_1 \\ & X0))) \wedge (\neg (\neg r1\_xxreal\_0 (k9\_real\_1 X0 np\_1) (k1\_seq\_1 k3\_taylor\_1 \\ & X0)) \wedge (X0 = np\_1)))))) \end{aligned} \tag{2}$$

### Theorem 1

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow & ((\neg r1\_xxreal\_0 X0 k6\_numbers) \Rightarrow \\ & ((r1\_xxreal\_0 (k6\_power k8\_power X0) (k9\_real\_1 X0 np\_1)) \wedge (( \\ & (X0 = np\_1) \Rightarrow (k6\_power k8\_power X0 = k9\_real\_1 X0 np\_1)) \wedge ((k6\_power \\ & k8\_power X0 = k9\_real\_1 X0 np\_1) \Rightarrow (X0 = np\_1)) \wedge ((\neg (X0 \neq np\_1) \wedge \\ & (r1\_xxreal\_0 (k9\_real\_1 X0 np\_1) (k6\_power k8\_power X0))) \wedge (\neg \\ & (\neg r1\_xxreal\_0 (k9\_real\_1 X0 np\_1) (k6\_power k8\_power X0)) \wedge (X0 = \\ & np\_1)))))) \end{aligned}$$