

t17\_afinsq\_2  
(TMWV1XcrfL8AWFP1UeUevkms1ifLmr27NpR)

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Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v5\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_afinsq\_1 : \iota \Rightarrow \iota$  be given. Let  $k3\_afinsq\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.((v1\_relat\_1 X1) \wedge (( \\ v5\_ordinal1 X1) \wedge ((v1\_funct\_1 X1) \wedge (v1\_finset\_1 X1)))) \Rightarrow ((r1\_xxreal\_0 \\ (k1\_afinsq\_1 X1) X0) \Rightarrow (k5\_relat\_1 X1 X0 = X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.((v1\_relat\_1 X1) \wedge (( \\ v1\_funct\_1 X1) \wedge ((v5\_ordinal1 X1) \wedge (v1\_finset\_1 X1)))) \Rightarrow (k3\_afinsq\_2 \\ X1 np\_1 X0 = k5\_relat\_1 X1 X0)) \end{aligned} \quad (2)$$

**Theorem 1**

$$\begin{aligned} \forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.((v1\_relat\_1 X1) \wedge (( \\ v1\_funct\_1 X1) \wedge ((v5\_ordinal1 X1) \wedge (v1\_finset\_1 X1)))) \Rightarrow ((r1\_xxreal\_0 \\ (k1\_afinsq\_1 X1) X0) \Rightarrow (k3\_afinsq\_2 X1 np\_1 X0 = X1))) \end{aligned}$$