

l17\_ami\_2

(TMcHLxhB1LE3L8YZtnh7VCyiYacz1kX35Qh)

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Let  $k1\_afinsq\_1 : \iota \Rightarrow \iota$  be given. Let  $k6\_afinsq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k4\_numbers : \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v5\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $np\_1 : \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1\_relat\_1 X2) \wedge ((v5\_ordinal1 \\ & X2) \wedge ((v1\_funct\_1 X2) \wedge (v1\_finset\_1 X2)))) \Rightarrow ((X2 = k6\_afinsq\_1 \\ X0 X1) \Leftrightarrow ((k1\_afinsq\_1 X2 = np\_2) \wedge ((k1\_funct\_1 X2 k6\_numbers = X0) \wedge \\ & (k1\_funct\_1 X2 np\_1 = X1)))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (v1\_relat\_1 (k6\_afinsq\_1 X0 X1)) \wedge (v1\_funct\_1 (k6\_afinsq\_1 X0 X1)) \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. (v5\_ordinal1 (k6\_afinsq\_1 X0 X1)) \wedge (v1\_finset\_1 (k6\_afinsq\_1 X0 X1)) \tag{3}$$

**Theorem 1**  $k1\_afinsq\_1 (k6\_afinsq\_1 k5\_numbers k4\_numbers) = np\_2$ .