

# t43\_afinsq\_1 (TMUyp- GYqm7HNNb8hGExkrxzmrvkdbL5CioH)

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Let  $k1\_xboole\_0 : \iota$  be given. Let  $k8\_afinsq\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $k4\_afinsq\_1 : \iota \Rightarrow \iota$  be given. Let  $v5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v5\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v1\_relat\_1 (k4\_afinsq\_1 X0)) \wedge ((v5\_relat\_1 (k4\_afinsq\_1 X0) X0) \wedge ((v5\_ordinal1 (k4\_afinsq\_1 X0) X0) \wedge ((v1\_funct\_1 (k4\_afinsq\_1 X0) X0) \wedge ((v1\_xboole\_0 (k4\_afinsq\_1 X0) X0) \wedge (v1\_finset\_1 (k4\_afinsq\_1 X0))))))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k8\_afinsq\_1 X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow ((v1\_relat\_1 X2) \wedge ((v5\_relat\_1 X2 X0) \wedge ((v5\_ordinal1 X2) \wedge ((v1\_funct\_1 X2) \wedge (v1\_finset\_1 X2))))) \tag{2}$$

Assume the following.

$$\forall X0.k4\_afinsq\_1 X0 = k1\_xboole\_0 \tag{3}$$

**Theorem 1**  $\forall X0.k1\_xboole\_0 \in k8\_afinsq\_1 X0.$