t31_card_fil (TMQTt8g656dGRN5p1S2MCarN1wUJ83RgGaz)

October 27, 2020

Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $v1\_card\_1 : \iota \Rightarrow o$ be given. Let $r3\_card\_fil : o$ be given. Let $v4\_card\_fil : \iota \Rightarrow o$ be given. Let $v6\_card\_fil : \iota \Rightarrow o$ be given. Let $v2\_card\_1 : \iota \Rightarrow o$ be given. Let $v5\_card\_fil : \iota \Rightarrow o$ be given. Let $v1\_card\_5 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v1\_finset\_1\ X0) \wedge (v1\_card\_1\ X0)) \Rightarrow ((r3\_card\_fil \wedge (v2\_card\_1\ X0)) \Rightarrow (v5\_card\_fil\ X0)) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v1\_finset\_1\ X0) \wedge (v1\_card\_1\ X0)) \Rightarrow ((v6\_card\_fil\ X0) \Leftrightarrow ((v1\_card\_5\ X0) \wedge (v5\_card\_fil\ X0))) \tag{2}$$

Assume the following.

$$\forall X0.((\neg v1\_finset\_1\ X0) \wedge ((v1\_card\_1\ X0) \wedge (v4\_card\_fil\ X0))) \Rightarrow ((\neg v1\_finset\_1\ X0) \wedge ((v1\_card\_1\ X0) \wedge ((v2\_card\_1\ X0) \wedge (v1\_card\_5\ X0)))) \tag{3}$$

Theorem 1

$$\forall X0.((\neg v1\_finset\_1\ X0) \wedge (v1\_card\_1\ X0)) \Rightarrow ((r3\_card\_fil \wedge (v4\_card\_fil\ X0)) \Rightarrow (v6\_card\_fil\ X0))$$