

t10_zf_lang
(TMTtb5A4xES5GTASFUKoT3QU4o1c3U6otfK)

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Let $v1_zf_lang : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v7_zf_lang : \iota \Rightarrow o$ be given. Let $v4_zf_lang : \iota \Rightarrow o$ be given. Let $v5_zf_lang : \iota \Rightarrow o$ be given. Let $v6_zf_lang : \iota \Rightarrow o$ be given. Let $v2_zf_lang : \iota \Rightarrow o$ be given. Let $v3_zf_lang : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\neg (\neg v2_zf_lang X0) \wedge ((\neg v3_zf_lang X0) \wedge ((\neg v4_zf_lang X0) \wedge ((\neg v5_zf_lang X0) \wedge (\neg v6_zf_lang X0))))) \quad (1)$$

Assume the following.

$$\forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((v7_zf_lang X0) \Leftrightarrow ((v2_zf_lang X0) \vee (v3_zf_lang X0))) \quad (2)$$

Theorem 1

$$\forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\neg (\neg v7_zf_lang X0) \wedge ((\neg v4_zf_lang X0) \wedge ((\neg v5_zf_lang X0) \wedge (\neg v6_zf_lang X0))))$$