l2_arytm_3 (TMXEvNerqru7cYmPAhbDj7Vy5fe8nL5ALKH)

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Let $np\_\_1 : \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $k1\_ordinal1 : \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $v3\_ordinal1 : \iota \Rightarrow o$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$np\_\_1 = k1\_ordinal1\ k1\_xboole\_0 \tag{1}$$

Assume the following.

$$k1\_xboole\_0 \in k4\_ordinal1 \tag{2}$$

Assume the following.

$$\forall X0.((v3\_ordinal1\ X0) \wedge (v7\_ordinal1\ X0)) \Rightarrow (v7\_ordinal1\ (k1\_ordinal1\ X0)) \tag{3}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Leftrightarrow (X0 \in k4\_ordinal1) \tag{4}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (v3\_ordinal1\ X0) \tag{5}$$

Theorem 1 $np\_\_1 \in k4\_ordinal1$.