l73_arytm_2 (TMTUmiFGXHJhWcT-peFDWu6RUJRwfQVJ1hNA)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $k5\_arytm\_3 : \iota$ be given. Let $k10\_ordinal2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9\_arytm\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3\_ordinal1 : \iota \Rightarrow o$ be given. Let $k8\_ordinal3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v3\_ordinal1\ X0) \wedge (m1\_subset\_1\ X0\ k5\_arytm\_3)) \Rightarrow (\forall X1.((v3\_ordinal1\ X1) \wedge (m1\_subset\_1\ X1\ k5\_arytm\_3)) \Rightarrow (k9\_arytm\_3\ X0\ X1 = k8\_ordinal3\ X0\ X1)) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(((v3\_ordinal1\ X0) \wedge (v7\_ordinal1\ X0)) \wedge ((v3\_ordinal1\ X1) \wedge (v7\_ordinal1\ X1))) \Rightarrow (k8\_ordinal3\ X0\ X1 = k10\_ordinal2\ X0\ X1) \tag{2}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1) \Rightarrow (v7\_ordinal1\ X0) \tag{3}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (v3\_ordinal1\ X0) \tag{4}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ k4\_ordinal1) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ k5\_arytm\_3) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ k5\_arytm\_3) \Rightarrow (((X0 = X2) \wedge (X1 = X3)) \Rightarrow (k10\_ordinal2\ X0\ X1 = k9\_arytm\_3\ X2\ X3)))))$$