

# t26\_moebius1

## (TMYg1q8yRyqhLQkWx7j9KMug3LQsDah5hdS)

October 27, 2020

Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_moebius1 : \iota \Rightarrow o$  be given. Let  $r1\_nat\_d : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k24\_binop\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(v7\_ordinal1\ X1) \Rightarrow (\neg (\neg v1\_moebius1\ (k24\_binop\_2\ X0\ X1)) \wedge (v1\_moebius1\ X0))) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.((v7\_ordinal1\ X0) \wedge (v7\_ordinal1\ X1)) \Rightarrow (k24\_binop\_2\ X0\ X1 = k3\_xcmplx\_0\ X0\ X1) \quad (2)$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(v7\_ordinal1\ X1) \Rightarrow ((r1\_nat\_d\ X0\ X1) \Leftrightarrow (\exists X2.(v7\_ordinal1\ X2) \wedge (X1 = k3\_xcmplx\_0\ X0\ X2)))) \quad (3)$$

### Theorem 1

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(v7\_ordinal1\ X1) \Rightarrow (\neg (\neg v1\_moebius1\ X0) \wedge ((r1\_nat\_d\ X1\ X0) \wedge (v1\_moebius1\ X1))))$$