t11_euclid_7 (TMLf4Z6Fic4q41vaKQTj4DpP7Pbwp8pDPbJ)

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Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (X0 = k1\_xboole\_0) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_funct\_1\ k1\_xboole\_0) \wedge ((v1\_funct\_2\ k1\_xboole\_0\ X0\ k1\_xboole\_0) \wedge (m1\_subset\_1\ k1\_xboole\_0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ k1\_xboole\_0)))) \tag{2}$$

Assume the following.

$$\forall X0.\exists X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0))) \wedge ((v1\_relat\_1\ X1) \wedge ((v4\_relat\_1\ X1\ X0) \wedge ((v5\_relat\_1\ X1\ X0) \wedge ((v1\_funct\_1\ X1) \wedge ((v1\_partfun1\ X1\ X0) \wedge ((v1\_funct\_2\ X1\ X0\ X0) \wedge (v3\_funct\_2\ X1\ X0\ X0)))))))) \tag{3}$$

Assume the following.

$$v1\_xboole\_0\ k1\_xboole\_0 \tag{4}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (\forall X1.((v1\_relat\_1\ X1) \wedge (v4\_relat\_1\ X1\ X0)) \Rightarrow ((v1\_xboole\_0\ X1) \wedge ((v1\_relat\_1\ X1) \wedge (v4\_relat\_1\ X1\ X0)))) \tag{5}$$

Theorem 1

$$(v1\_funct\_1\ k1\_xboole\_0) \wedge ((v1\_funct\_2\ k1\_xboole\_0\ k1\_xboole\_0\ k1\_xboole\_0) \wedge ((v3\_funct\_2\ k1\_xboole\_0\ k1\_xboole\_0\ k1\_xboole\_0\ k1\_xboole\_0) \wedge (m1\_subset\_1\ k1\_xboole\_0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_xboole\_0\ k1\_xboole\_0))))))$$