

## t3\_cfdiff\_2

(TMZs4BNgQLGbjyxV3bTLEZybBLZ6JenKYkR)

October 27, 2020

Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k1\_numbers : \iota$  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  $v2\_comseq\_2 : \iota \Rightarrow o$  be given. Let  $k2\_seq\_2 : \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k56\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k18\_complex1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow ((X0 = k6\_numbers) \Leftrightarrow (k18\_complex1 X0 = k6\_numbers)) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_funct\_1 X0) \wedge ((v1\_funct\_2 X0 k5\_numbers k1\_numbers) \wedge \\ & (m1\_subset\_1 X0 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers k1\_numbers)))))) \Rightarrow \\ & (((v2\_comseq\_2 (k56\_valued\_1 k5\_numbers k1\_numbers X0)) \wedge (k2\_seq\_2 \\ & (k56\_valued\_1 k5\_numbers k1\_numbers X0) = k6\_numbers)) \Rightarrow ((v2\_comseq\_2 \\ & X0) \wedge (k2\_seq\_2 X0 = k6\_numbers))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_funct\_1 X0) \wedge ((v1\_funct\_2 X0 k5\_numbers k1\_numbers) \wedge \\ & (m1\_subset\_1 X0 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers k1\_numbers)))))) \Rightarrow \\ & ((v2\_comseq\_2 X0) \Rightarrow (k2\_seq\_2 (k56\_valued\_1 k5\_numbers k1\_numbers \\ & X0) = k18\_complex1 (k2\_seq\_2 X0))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_funct\_1 X0) \wedge ((v1\_funct\_2 X0 k5\_numbers k1\_numbers) \wedge \\ & (m1\_subset\_1 X0 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers k1\_numbers)))))) \Rightarrow \\ & ((v2\_comseq\_2 X0) \Rightarrow (v2\_comseq\_2 (k56\_valued\_1 k5\_numbers k1\_numbers \\ & X0))) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_funct\_1 X0) \wedge ((v1\_funct\_2 X0 k5\_numbers k1\_numbers) \wedge \\ & (m1\_subset\_1 X0 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers k1\_numbers)))))) \Rightarrow \\ & (m1\_subset\_1 (k2\_seq\_2 X0) k1\_numbers) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (v1\_xreal\_0 X0) \quad (6)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.((v1\_funct\_1 X0) \wedge ((v1\_funct\_2 X0 k5\_numbers k1\_numbers) \wedge \\ & (m1\_subset\_1 X0 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers k1\_numbers)))))) \Rightarrow \\ & (((v2\_comseq\_2 X0) \wedge (k2\_seq\_2 X0 = k6\_numbers)) \Rightarrow ((v2\_comseq\_2 \\ & (k56\_valued\_1 k5\_numbers k1\_numbers X0)) \wedge (k2\_seq\_2 (k56\_valued\_1 \\ & k5\_numbers k1\_numbers X0) = k6\_numbers))) \wedge (((v2\_comseq\_2 (k56\_valued\_1 \\ & k5\_numbers k1\_numbers X0)) \wedge (k2\_seq\_2 (k56\_valued\_1 k5\_numbers \\ & k1\_numbers X0) = k6\_numbers)) \Rightarrow ((v2\_comseq\_2 X0) \wedge (k2\_seq\_2 X0 = \\ & k6\_numbers)))) \end{aligned}$$