t40_pepin
(TMTQfEduLPj8nbejp4YM1QPBStGB99bNw5a)

October 27, 2020

Let $v1\_int\_1 : \iota{\Rightarrow}o$ be given. Let $r2\_int\_1 : \iota{\Rightarrow}\iota{\Rightarrow}\iota{\Rightarrow}o$ be given. Assume the following.

$$\forall X0.(v1\_int\_1\ X0){\Rightarrow}(\forall X1.(v1\_int\_1\ X1){\Rightarrow}(\forall X2. \\ (v1\_int\_1\ X2){\Rightarrow}(\forall X3.(v1\_int\_1\ X3){\Rightarrow}(((r2\_int\_1\ X0\ X1\ X2)\wedge \\ (r2\_int\_1\ X1\ X3\ X2)){\Rightarrow}(r2\_int\_1\ X0\ X3\ X2))))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_int\_1\ X0){\Rightarrow}(\forall X1.(v1\_int\_1\ X1){\Rightarrow}(\forall X2. \\ (v1\_int\_1\ X2){\Rightarrow}((r2\_int\_1\ X0\ X1\ X2){\Rightarrow}(r2\_int\_1\ X1\ X0\ X2)))) \tag{2}$$

Theorem 1

$$\forall X0.(v1\_int\_1\ X0){\Rightarrow}(\forall X1.(v1\_int\_1\ X1){\Rightarrow}(\forall X2. \\ (v1\_int\_1\ X2){\Rightarrow}(\forall X3.(v1\_int\_1\ X3){\Rightarrow}(((r2\_int\_1\ X0\ X1\ X2)\wedge \\ (r2\_int\_1\ X0\ X3\ X2)){\Rightarrow}(r2\_int\_1\ X1\ X3\ X2)))))$$