t16_yellow18 (TMGc2YJbDE5i9HBo9jBUMvX11Zyo71Cz8ju)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_altcat\_1 : \iota \Rightarrow o$ be given. Let $v11\_altcat\_1 : \iota \Rightarrow o$ be given. Let $v12\_altcat\_1 : \iota \Rightarrow o$ be given. Let $l2\_altcat\_1 : \iota \Rightarrow o$ be given. Let $r2\_yellow18 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2\_functor0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v21\_functor0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_yellow18 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v9\_functor0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v16\_functor0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2\_functor0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_altcat\_1\ X0) \wedge ((v11\_altcat\_1\ X0) \wedge ((v12\_altcat\_1\ X0) \wedge (l2\_altcat\_1\ X0))))) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge ((v2\_altcat\_1\ X1) \wedge ((v11\_altcat\_1\ X1) \wedge ((v12\_altcat\_1\ X1) \wedge (l2\_altcat\_1\ X1))))) \Rightarrow ((r2\_yellow18\ X0\ X1) \Rightarrow (v21\_functor0\ (k2\_yellow18\ X0\ X1)\ X0\ X1))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v2\_struct\_0\ X0) \wedge ((v2\_altcat\_1\ X0) \wedge ((v11\_altcat\_1\ X0) \wedge ((v12\_altcat\_1\ X0) \wedge (l2\_altcat\_1\ X0))))) \wedge ((\neg v2\_struct\_0\ X1) \wedge ((v2\_altcat\_1\ X1) \wedge ((v11\_altcat\_1\ X1) \wedge ((v12\_altcat\_1\ X1) \wedge (l2\_altcat\_1\ X1)))))) \Rightarrow ((v9\_functor0\ (k2\_yellow18\ X0\ X1)\ X0\ X1) \wedge ((v16\_functor0\ (k2\_yellow18\ X0\ X1)\ X0\ X1) \wedge (m2\_functor0\ (k2\_yellow18\ X0\ X1)\ X0\ X1))) \tag{2}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_altcat\_1\ X0) \wedge ((v12\_altcat\_1\ X0) \wedge (l2\_altcat\_1\ X0)))) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge ((v2\_altcat\_1\ X1) \wedge ((v12\_altcat\_1\ X1) \wedge (l2\_altcat\_1\ X1)))) \Rightarrow ((r2\_functor0\ X0\ X1) \Leftrightarrow (\exists X2.(m2\_functor0\ X2\ X0\ X1) \wedge ((v21\_functor0\ X2\ X0\ X1) \wedge (v16\_functor0\ X2\ X0\ X1))))) \tag{3}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v2\_altcat\_1\ X0)\wedge((v11\_altcat\_1\ X0)\wedge((v12\_altcat\_1\ X0)\wedge(l2\_altcat\_1\ X0)))))\Rightarrow(\forall X1.((\neg v2\_struct\_0\ X1)\wedge((v2\_altcat\_1\ X1)\wedge((v11\_altcat\_1\ X1)\wedge((v12\_altcat\_1\ X1)\wedge(l2\_altcat\_1\ X1)))))\Rightarrow((r2\_yellow18\ X0\ X1)\Rightarrow(r2\_functor0\ X0\ X1)))$$