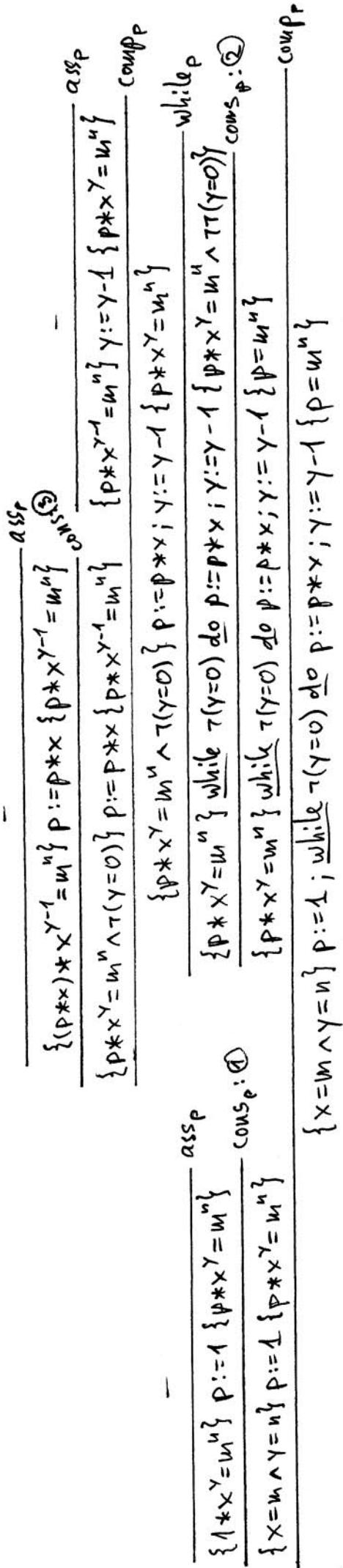


# PROOF TREE



proof obligations:

- ①  $x = w \wedge y = n \stackrel{?}{\Rightarrow} 1 * x^y = w^n$  ok
- ②  $p * x^y = w^n \wedge \tau(y=0) \stackrel{?}{\Rightarrow} p = w^n$  ok (well, if  $x \neq 0$  - we have to strengthen Pre!)
- ③  $p * x^y = w^n \wedge \tau(y=0) \stackrel{?}{\Rightarrow} (p*x) * x^{y-1} = w^n$  ok since  $(p*x) * x^{y-1} = p * x^y$