

Lambda calculus

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Lambda terms

Λ is the set of λ terms.

V is an infinite set of *variables*.

$$x \in V \Rightarrow x \in \Lambda$$

$$M, N \in \Lambda \Rightarrow (M \ N) \in \Lambda$$

$$M \in \Lambda, x \in V \Rightarrow (\lambda x.M) \in \Lambda$$

$$\text{var} ::= \text{'v' | var''}$$

$$\lambda\text{-term} ::= \text{var | '(\lambda-term \lambda-term)' | '(\lambda'var.\lambda-term)'}$$