## Lambda calculus

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## Lambda terms

## $\Lambda$ is the set of $\lambda$ terms.

V is an infinite set of *variables*.

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