Computability
Assignment 4. Korper Korban
1. A function fell in is x-computable if
Je ECEXP. VaEN. eta Ufa i.e. three exists a closed expression e such that for every natural number a, given to a signat input evaluates to fat.
i.e. there exists a closed expression e such that for every natural
number a, given se os signet input evaluates to fa.
2. If I was X-computable, there would have to be an fECEXP.
such that $\forall_{\alpha} \in CExp$ of T of then we can reduce
"intensional" halting problem to f.
halts = $\lambda \rho$. $f(\lambda - Zerol)_{LP}$
Then:
[halts [e]] = [f[(\lambda_zero()), [e]]] = [f[(\lambda_zero())e]] =
= f((\lambda_Zero(1))e) = if ((\lambda_Zero(1))e) terminates with Zero() thentone = else false
= if e terminates then true else false? = halts e