



2-3/

Is have program X, what will it do?"

eval (X) = ?"

My compiler says X is A, but is flat right?
"evalr (X) = A"?

Is it always the case that every program has

Ye. Ia. evalr (e) = a "All programs have at least one answer"

 $\forall e. \ \forall \alpha, \alpha'. \ eval \ (e) = \alpha$ $\wedge \ eval \ (e) = \alpha'$ $\wedge \ eval \ (e) = \alpha'$ $+ cval \ (e) = \alpha'$ $+ cval \ (e) = \alpha'$

"All programs have zero or one answer"

 $T \rightarrow T = T$ $T \rightarrow F = F$

 $F \rightarrow T = T$

FTT

Do .X and Y do Hesane thing?

" evatr(X) = evalr(Y)"

" Vinput, evalr (X in) = evalr (Y in)"

comptible closure means "find work" YM, N & dems, If M = N, exists L, M >>r L and N >>r L Church-Rosser the diamond property