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I know this is a helpful tool, but I think that during the main semester it would be a bit too\* helpful and would actually hurt student's learning. Please Please Please respect this policy.

The following information describes inference rules of substitute for lab 3 this summer.... To make my life a little easier I didn't subscript my numbers for most of this... v1 rather than v1. I hope you can still see what I'm talking about.

Use these to guide your understanding of what substitute is supposed to actually DO for you.

I'm 90% sure these are correct and complete. In an attempt to increase legibility, I've highlighted the '=' in our new op. sem.

First, a few corrections I would make in the lab

Now for things about substitute... here is one of a few valid solutions:

Grammar: see page 4 of the lab

=[/] Judgment form:

Judgment form: = [/]
~judgmenet form~: output = input1 [ input2 / input3 ]

Operational semantic:  $e_{sub} = e[v/x]$ 

Inference rule name prefix: Sub

Again... here I won't take the time to subscript sub... see esub as e<sub>sub</sub>

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x1(x2) = e1 = x1(x2) = e1[v/x3]

x1(x2) => e1sub = x1(x2) => e1[v/x3]

SubFunctionRecShadow1-----