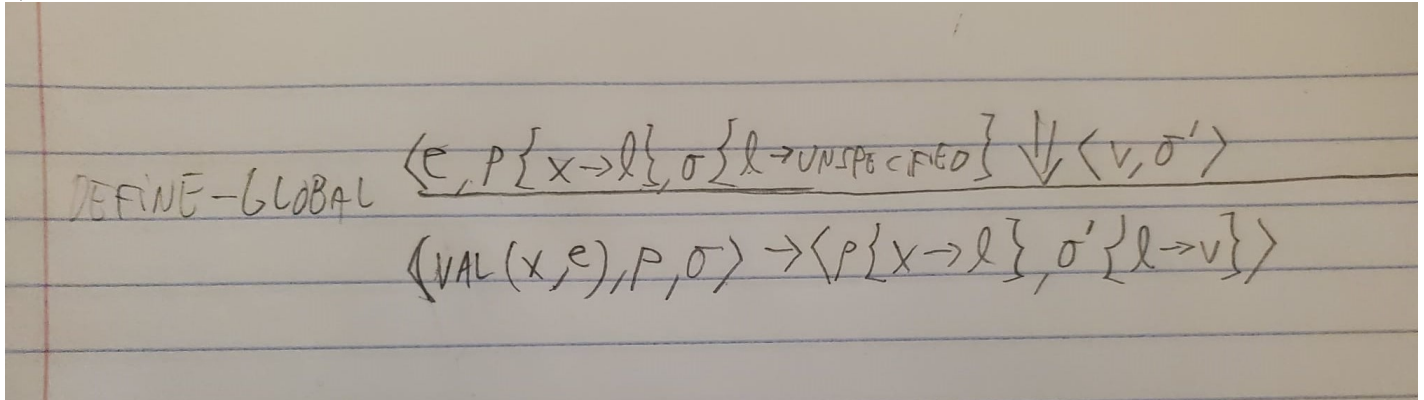


Exercise 46

a)



b)

```
(val x 2)
(define scheme-test (x)
  (val x 3))
(scheme-test x)
x
```

This code will, if working on the original schema syntax, output a 3 at the end. If working with the new semantics, it will output 2.

c)

I prefer the original Scheme semantics because it is more intuitive. Usually, when bounding variables it is very common that we will want to set them to something new, rather than create a new binding. If we want to make a new binding, we would call it on a left-hand side that is not already bounded, since it makes it easier to keep track of everything.