

```

let
  a = proc(x,y) if >(x,0) then let b = 8 in *(b,y) else 4
  b = proc(w,z) (2,w,z)
in

```

letrec

```

  g(x,y) = if >(x,0) then +(x, (a x y), (f (x,1) y)) else let k = (a (b 1 2) (b 2 1)) in +(2,k)
  f(x,y) = if >(x,0) then +(y, (g (x,1) (b y x))) else (a 4 2)
in

```

```

  let
    p = 9
    m = 10
  in
    +((g p m), (f p m))

```

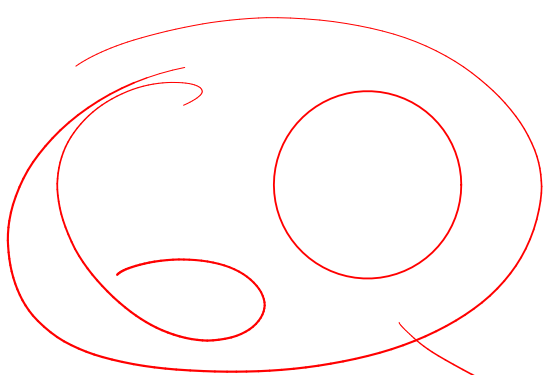
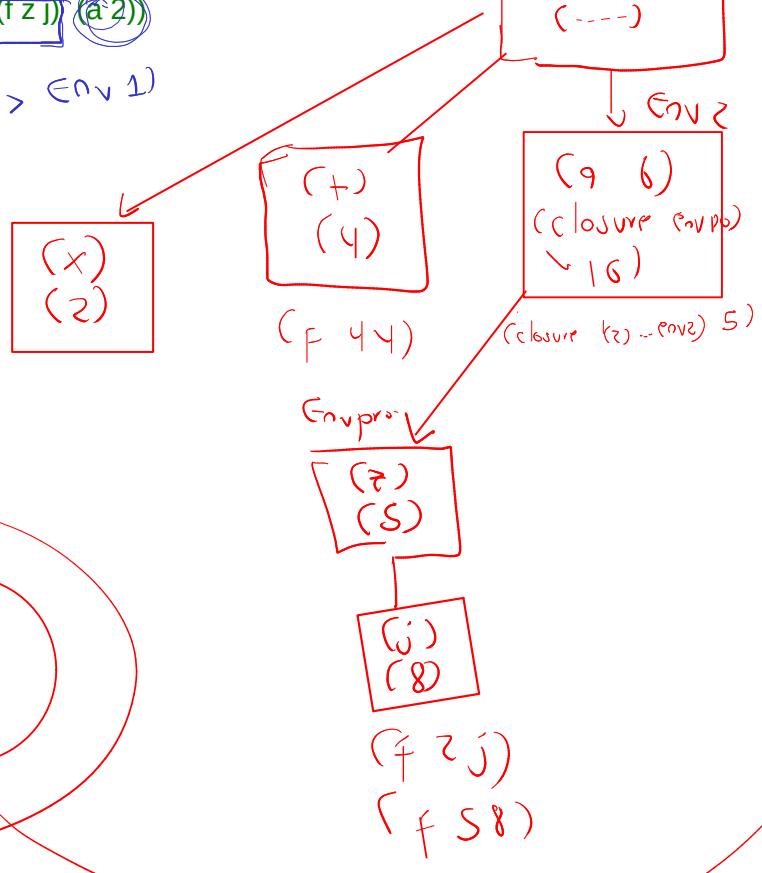
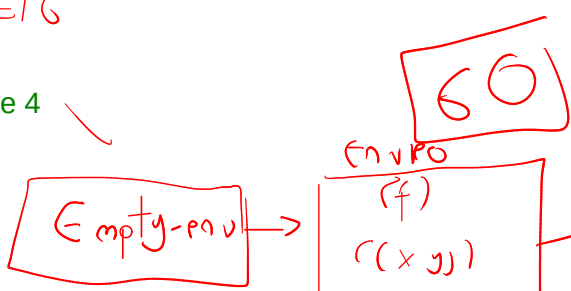


$$+(4, 8, 4) = 16$$

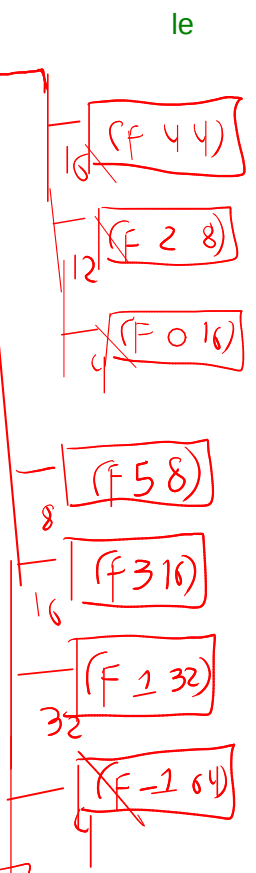
```

letrec
  f(x,y)= if >(x,0) then +(y, (f -(x,2) *(y,2))) else 4
in
  let
    a = proc(x) +(x,3)
    b = let t = 4 in (f t t)
  in
    (proc (z) let j = 8 in (f z j)) (a 2))
  
```

(closure < > Env 1)



oD

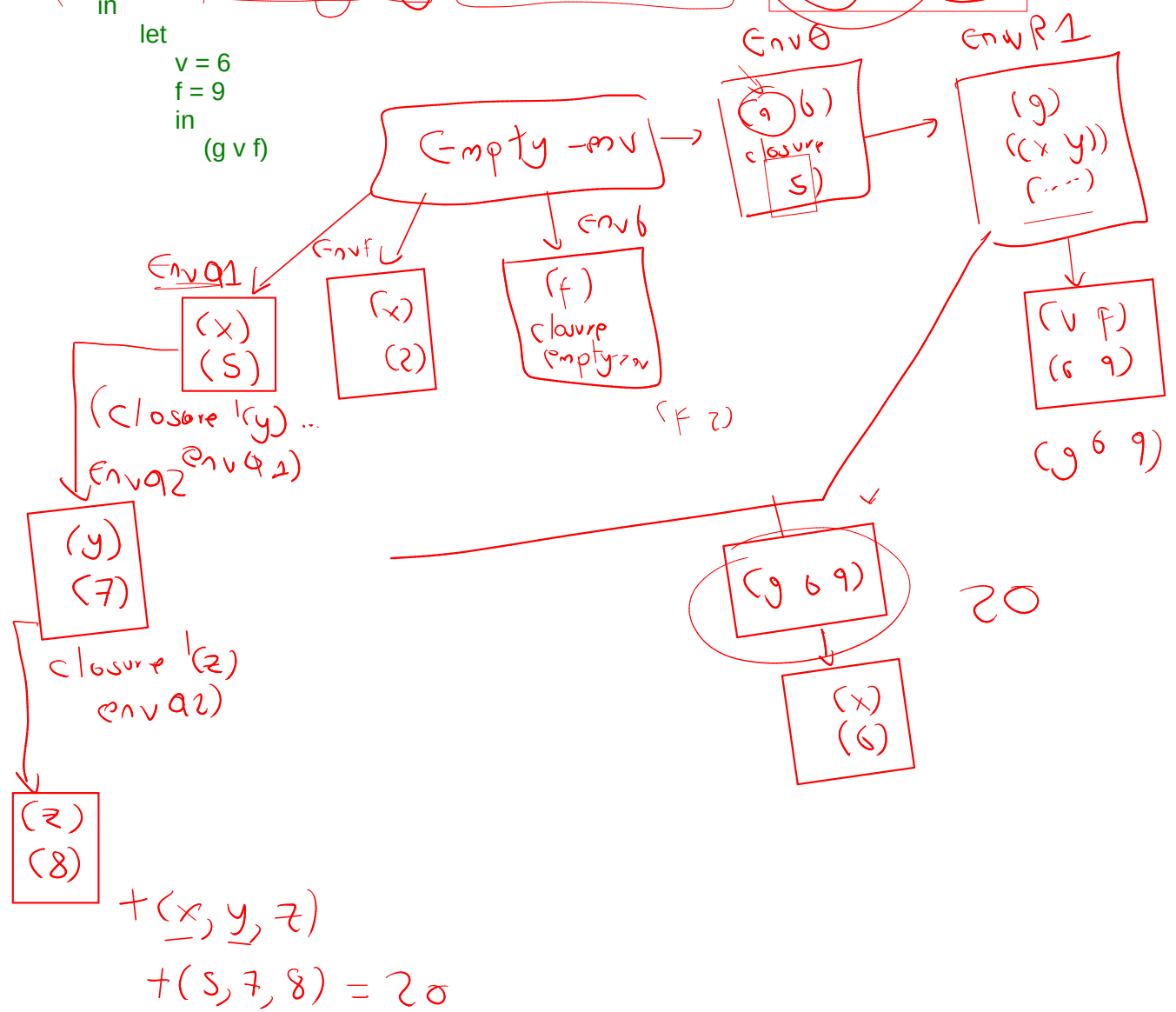


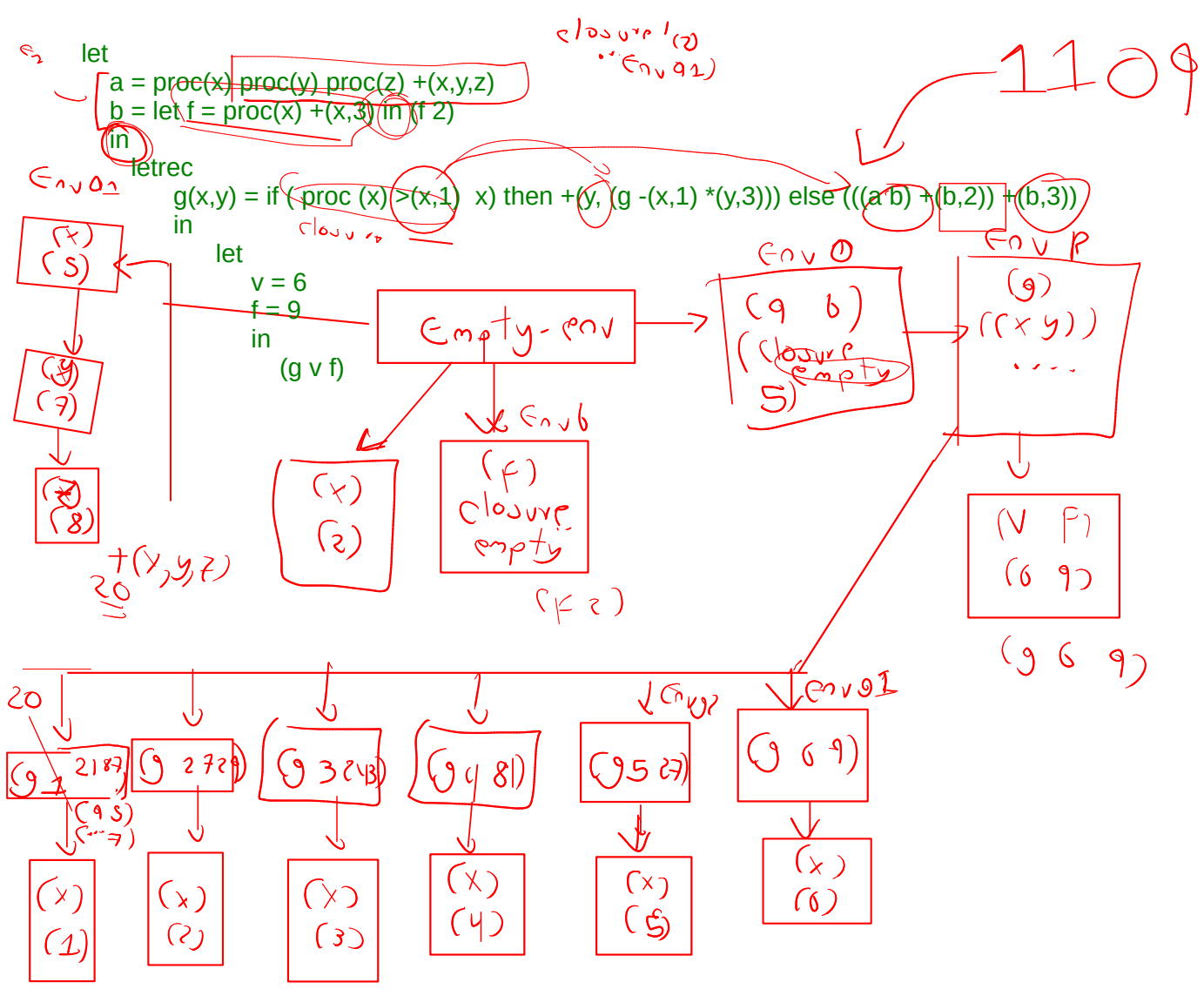
(closure '(z) env0) 8

20

```

let
  a = proc(x) proc(y) proc(z) +(x,y,z)
  b = let f = proc(x) +(x,3) in (f 2)
in
  letrec
    g(x,y) = if (proc(x) < (x,3) x) then +(y, (g -(x,2) *(y,3))) else (((a b) +(b,2)) +(b,3))
  in
    let
      v = 6
      f = 9
    in
      (g v f)
  
```





$(+ 9 \ 27 \ 81 \ 243 \ 729 \ 20)$

1109