```
42 (Q(2)→ R(y,Z)) [y = t(q)]
       = 42 ( Q(2) [y:=t(q)) -> R(y,2) [y:=t(q)))
      = Hz (Q(z(y=+(q)) -> R(y(y:=+(q)), z(y=+(q)))
      = #2(0(2) -> R(+(y), +))
                                                       \left(\vec{x}:=\vec{k}\right)=\left[x_1,\ldots,x_n:=k_1,\ldots,k_n\right]
         \frac{1}{2} \left( \left( x, y, t \right) = \frac{1}{2} \left( a \right), r, q \right) \rightarrow \frac{1}{2} \left( \left( x, y, t \right) = \frac{1}{2} \right)
             \sqrt{(x')} = \sqrt{(x')} = \sqrt{(x')} = \sqrt{(x')}
             X\left(\overrightarrow{x}:=\overrightarrow{b}^2\right)=X si para teda i, xi\neq x.
             1 [ = ] ] = 1
            T(\vec{x} = \vec{y}) = \vec{y}
      P(t_1, \ldots, t_m) \left[ \overrightarrow{x} := \overrightarrow{t} \right] = P(t_1 \left[ \overrightarrow{x} := \overrightarrow{t} \right]), \ldots, t_m \left[ \overrightarrow{x} := \overrightarrow{t} \right])
            (\gamma Y)(\vec{x} := \vec{t}) = \gamma (Y(\vec{x} := \vec{t}))
         (4, + 42)[]:=])=(Y, []:=]) + Y2[]:=])
                                                        (on x ← } n, v, →, ←> }
          4y ( [7:= ₹]) = 4y ( y [7:= ₹])
                                                              si J & R V Var (T)
          27 ( (7:= 2) = 27 ( 4 [ = = +]) si y & = v Var ( +)
         1 \forall x (Q(x) \rightarrow R(2, x)) [2:=f(x)]
 Nx Hw(O(w) -> R(z,w))[2 = +(x)] =
Hw((Q(w) → R(Z,w))[z:= f(x))) = +w((Q(w)[z:=f(x)] →
                                               R(z,w)[z=t(x)]
    d - Equivalencia
        Decimos que l. y 12 son «equinalentes si 1, y 1/2
        difieren a la mais en el nombre de variables ligadas
       Vx (Qcx) -> R(2,x)) ~ Hw (Q(w) -> R(2,w))
                                   Y~ Hr ( C(r) → R (1, r) )
```

```
-- = Uw(Q(w[?:=f(x))) -> R(2[z:=f(x)), w[2:=+(x)]))
     = Vw(Q(w) -> R(t(x), w))
    Ux (Q(2, y, x) n ] + T (f(z), w,y)) [xy,2:= a, z,g(w)]
 ~ HK (Q(2, K) 1 J = T (f(2), w,y)) S
 = UK( (O(2,2,K) n 72T($(22, W,y)) )
 = UK(Q(25, y5, k5) 1) + JzT(+(2), w,y)5)
= Dx(Q(g(w), Z, k) n Jzt(f(3), w,y)))
~ & HK( O(g(m), z, k) ~ ] + T() (+1, m, y) S)
- HK (Q(g(w), z, k) 1 ) (T(+(t), w,y) S))
= VL (Q(g(m), 2, K), J + T (f(+) 5, w 5, 2)
= Vk(Q(g(w), z, k), ) + + (f(t S), w, 3)
= 4x (Q(g(m), z, h) 1 ) + T(f(t), w, +))
```