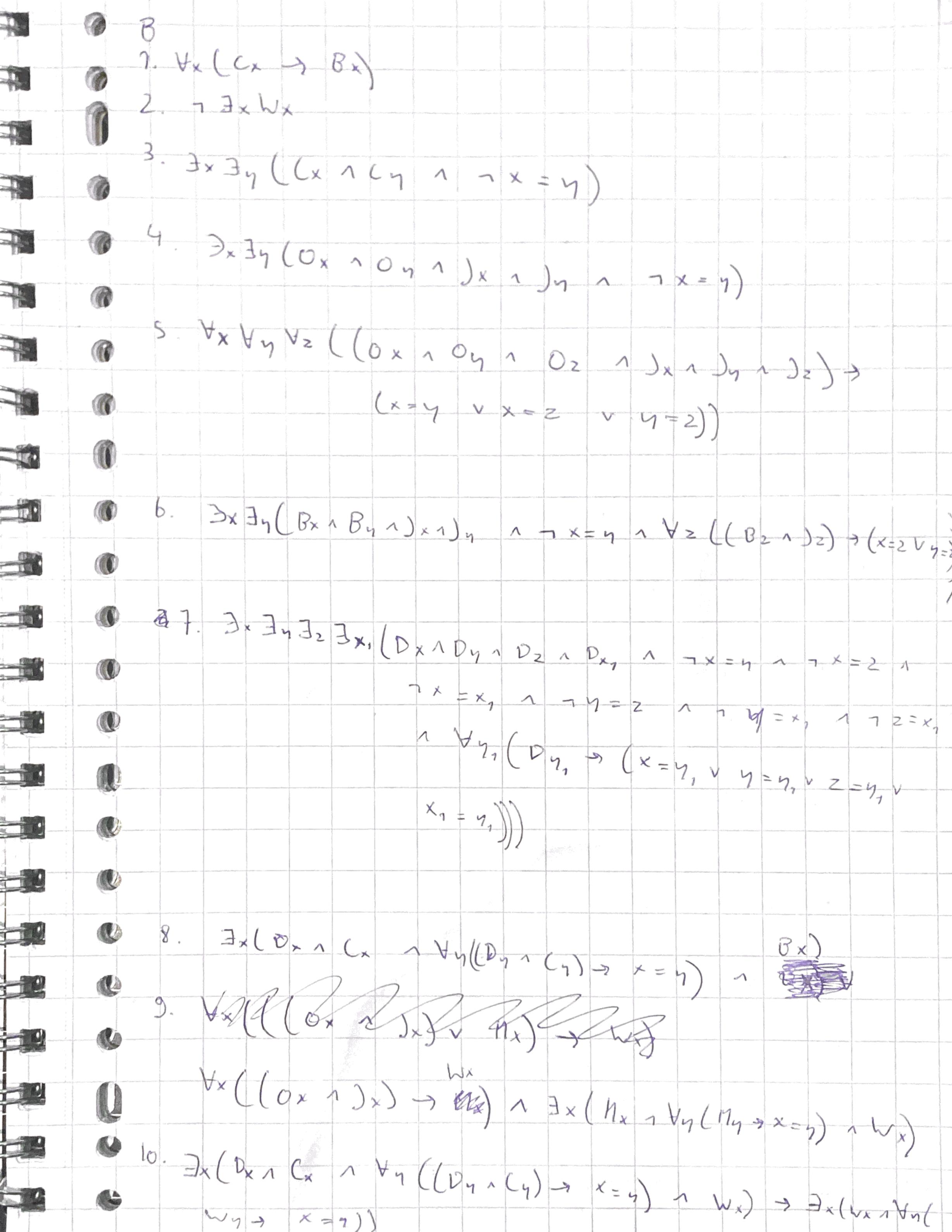
9. Yx (Xx Vx -> thx) 2 tx (+xi > Yy (Vy > txy)) 3. Vx (tx) > Ay Eyz tyz) 1 4 * (Kx > x = i) (dos this meen that Ingma Brows the compination to the sage? I'R So the it Should Be Vx (Kx => x=i) 1 K; $OV \forall x (\mathcal{U}_{x} \leftrightarrow x = i)$ $\forall x (x = h \leftrightarrow t : h) or$ Vx ((x=h = tih) 1 (7x=h -> 7+1) Becast they are eg vivoner) Dx (Xx ~ Vy (Ky > x=y) (x) or Delater Hx by ((kx 1 ky) -> x==>) 1 +x(4x > ky) 7. 3x (Kx 1 4y (Ky 3 x=9) 1 7 5x) though it Perhors Should be an orte negation (eithe person does not exist

T



```
3. (mx ~ 4y (mn + x=n) ~ -1)x)
     12. 3 3x((Dx ^ (x) ~ \n((Dx ^ (x) ) + x = y) ^
                                       = 1/(Mn 1 \ \ 2 (M2 > y = 2) 1 7 x = y))
                                \exists x \exists y (D \times x C \times x \forall z (D \times x C \times x \Rightarrow x = 2) \land My \land \forall z (Mz \Rightarrow y = 2)
              7. 3x3h32(Ax1H9nH2n7X=71nx=21
      2. 3x3732 (1X=7 17x=2 177=2)
       3. 2x3y(Hx 1 Hy 1 Bx 1 By 1 - X=4)
    4. 3x3n32 (Hxn Hn A H2 n Bxn Bn n 82 1
                                          7 \times = y \quad 1 \quad 1 \quad y = 2 \quad 1 \quad 1 \times = 2 \quad 1 \quad 1 \times 1 \left( \left( 1 + x_{1} + x_{2} + x_{3} + x_{4} + x_{4} + x_{5} + x_{4} + x_{5} + 
                                      \Rightarrow (x_n = x \lor x_1 = y \lor x_n = z)))
                 Px (bx 1 Bx Yy ((by 1 By) > x = y))
b. Dx (Px 1 47 (Py -> x=y) 1 Wx 1 Hx)
  7. 3x (Bx 1 47/By 3 x=4) 1 7 Hx)
 8. 3x ( Hx 1 Bx 1 Hy ((Hy 1 By) -> x = 4) - - bx)
```