```
1) Vx. Vy (WEMAN (x) A CHOCOCATE (y) -> LIKES (x,y))
     = ETWOMAN(X), TCHOCOLATELY), LIKES (X,7)} (I, N,)
 2) =x=y( CHOLOLATE(y) 1 LIKES(x,y) => 7 ADDICT(x))
     = { TCHOCOLATE(a), TLIKES(a,c), TADDICT(a)} (1,N,)
 3) ]x (coffeely) nowm(x,y) > ADD. CT(x))
     = { TCOFFEE(y), TOWM (a,y), ADDICT (a)} (E,o,o)
 4) =x =y ((coffee(y) A BUY(x,y)) -> (ows(x,y) vowm(x,y)))
    = {7 (offEE(b), 7BUY(a,b), ows(a,b), own(a,b)}
                                                 (E,D,0)
 5) 3x ( COFFEE(x) A BUYS (Mary, x))
                                               (F,0)
    = { COFFEE (b)} and { BUYS (ming, b)}
 6) {CHOCOLATEL Milka)}
      IX (woMAN (MARY) -> (COFFEE(x) A DWS (MOTY, X)))
       60al: Xx, (7 (woman (morg? -) (coffee(x) A DWS (morg,x))))
Negated
              = { woman (mony)} and
                 ¿TOFFEE(x), TOWS (Mory, x)}
```

```
Prenise
1) & Twoman (x), Tchocolate (y), likes (x,y)}
                                                  fromise
2) & Tahocolote (a), 7/tes (a, a), Toddict (a) }
                                                  Prentse
3) & 7 coffee (y), 7 dum (a,y), addict (a) }
4) £7 coffee (b), 7 by (a,b), dws(a,b), dwn (a,b) } Prenise
5) { offee(5)}
                          Promise
6) & buj (may, 6)}
                       Premise
7) Echocolate (millea) 3 Premise
8) Ewomer (mory) }
                                   Negated goal
                                    Negoted goal
9) {7cffee(x), 7dws (mary, x) }
10) & 7 character (y), likes (Mary, y) }
                                      (1,81 &x Emary 3
11) Elikes (mory, milea) ]
                                      (10,7) Eye Milkas
                                      (2,7) { c < Miller }
12) {7(Tikes (a, Millea), 7 addet (a) }
                                      (11,12) {q=mary}
13) {7 addet (Norg)}
                                      (3,13) Ea +mary }
14) { 7 coffee (y), 7 dum (pary, y) }
                                      (5,14) {yes}
15) {7dwm (mary, 6)}
16) { 7 coffee (b), 7 by (mary, b), dws (mary, b)} (4,15) {at mary}
17) {750y (may, b), dws (may, b)} (5,16)
18) { dws (Mory, 5) }
                                       (6,17)
                                        (5,9)
19) { 7dws (may, x)}
                                        (18,19) ExES3
20) & 3
```

(3)

19) &75 (AU, 2), 5 (VeV, 2) } (1,5) {x = AV, } 20) \(\(\zert \) (NOTE = 5 (HSseyn, AU) = 5 (AU, HSseyun))

