```
5060551
I)
   → 4: (b→ 7)
   7 42: (2+ (NH))
    \rightarrow h^3: (\lambda \rightarrow (\lambda \nu f))
    > 44: (pvv)
        The formula sot is a logical consequency of the
     theory.
            Φ = { Ψ1, Ψ2, Ψ2, Ψ4 Y
     Using Resolution to delive empty cours from
         CNIF (congunctive normal form)
                (4, 142, P2, P4) 1 74
     → 41: (P→2) → 7PV2' → {7P,2)
     →42: (2-> (SNt)) -> 72V (SNt) -> (72V5) N(72Vt) -> (72,t)
      + (312) UYF ← (312) ←1): EU←
                        -> (71 VS) x(7YVt)
                        → ( 21 de) ←
                           (7x, t)
       > 44: PUY' -> (PIY)
        つゆ:つ(5八七) ラフタソフト
                       > (75,7t)
                                      g(1,6) \rightarrow (q,r)
                       かしょり
         1) (7P,E)
                                      9) (8,7) -> (9,74)
                      6) (P(Y)
         2) (72,5)
                                      10) (9,3) +()
                       す (カイル)
          3) (72, 4)
                       4) (78,5)
```

			5060551
	(P/Y)	,	(72, €)
	SNE is a logical	conservent	· σρ φ= {Ψ,142,43,44,}
5	where an "x" in the Ce	1 x,y denoty	that x "liky"y.
	Abby f	sess cody	Dang
- 1	Abby X	_	*
		٠ -	*
:	_	x	
1	Cody -	×	-
	Dana –		
	1) Ax. liky (xxx)	YE. NA G	y.liky(N,y) =>3y => xxisbantial
	like (a,a) = True	Эyl	iky (Abby, y) 144 (Abb),
			iky (Ben, y)
	liky (b,b) = True	391	iky (Kody,y)
	likes (1,1) = True	ðy li	(ky (Dang, y)
	liky (d,d) = Falte		iky (Abby, cody)
	Yn. liky (n, x) is false. liker (Ber, Bers)		
		,	iku (cody, lody) liku (pana, lody)
			Byriky (x,y) is true.
	•	V	39.0103 (1/9/10)100
	3) 3y. 4x. 11'ky (x1y)	y) ·	dx. dy liky (x,y) → liky(y,x)
			This would be satisfied
	likes (a,a)=True		if liky way symmetric
	liky (b, b)=Tme		in the model for
		Dana dount	liky (and is rapitled
		like herely)	tiky (c/a) is not.
	sy. Jx liky (xcy) is	Palse.	De why diky every shil

4 x. 4y. 11'ky (x1y) -> 1iky (y,x) is dolly

5) Ar. My. (32.11ky (x,z) nliky (z,y))-s liky (x,y)

Ylly (a,d) 11ky (a, b) liky (a,b)

YX. Yy. (3z. liky (x,z) Niky (z,y)) -> liky (x,y) is false.