```
Teorema del bebedor
(\exists x. enBar(x)) \Rightarrow \exists y. (enBar(y) \land (bebe(y) \Rightarrow \forall z. (enBar(z) \Rightarrow bebe(z))))
Eliminar implicaciones Me divide de negar la formula... !
73x.enBar(x) v 3y.(enBar(y) ~ (7bebe(y) v Yz.(7enBar(z) v bebe(z))))
Forma normal prenexa
Yx. Jy. Yz. (renBar(x) v (enBar(y) , (rbebe(y) v renBar(z) v bebe(z))))
Skolemizar
Yx. Yz. ( renBar(x) v (enBar(f(x)) / (rbebe(f(x)) v renBar(z) v bebe(z))))
Forma normal conjuntiva
YX.Yz. ((tenBar(x) y enBar(f(x))) , (tenBar(x) y thebe(f(x)) y tenBar(z) y bebe(z)))
Forma clausal
{ {zenBar(x), enBar(f(x))}, { zenBar(x), zenBe(f(x)), zenBar(z), bebe(z)}}
No hay clausula objetivo, que raro...
```

```
Teorema del bebedor
(\exists x. enBar(x)) \Rightarrow \exists y. (enBar(y) \land (bebe(y) \Rightarrow \forall z. (enBar(z) \Rightarrow bebe(z))))
A = enBar(x) B = enBar(y) C = bebe(y) D = enBar(z) E = bebe(z)
Negar la formula y eliminar implicaciones
7(3 \Leftrightarrow A) \times (B \times (C \Rightarrow \forall z \cdot (D \Rightarrow E)))
     = 7(73 × A.XE × A.XE × A.XE (1))))
     = 3x.A , YY (7B v (C , 3z. (D , 7E)))
Forma normal prenexa
((((3r, A), SE, YA, A), SE, YA, XE
Forma normal conjuntiva
JX. YY. JZ. (A ~ (7B v C) ~ (7B v D) ~ (7B v 7E))
Skolemizar
\forall Y. (enBar(c) \land (\tau enBar(Y) \lor bebe(Y))
                  \Lambda (renBar(Y) \gamma enBar(F(Y)))
                  \Lambda (7enBar(Y) Y 7bebe(f(Y)))
```

| For | Ma | clausal | |
|------------|--------------|--------------------------------------|-------|
| , 0, | 100 | | |
| Z | { er | Bar(c)}, 1 | |
| | €7ex | nBar(Y), bebe(Y)}, Z | |
| | به کم | 1Bor(Y), enBor(F(Y))}, 3 | |
| } | हे ७७ | nBar(Y), 7bebe(F(Y))} 4 | |
| Res | solve | ción SLD | Goals |
| 4 | = | {zenBar(Y), zbebe(F(Y))} | 64 |
| 1 | | {enBar(c)} | |
| S 5 | | ξγ := c ζ | |
| 5 | | { 7bebe(f(c)) } | Gz |
| Z | = | { 7enBar(Y6), bebe(Y6)} | |
| S 6 | = | £ 1/6 := f(c)} | |
| 6 | 5 | {7enBar(f(c))} | 63 |
| 3 | = | | |
| | | { y ₇ := c ³ } | |
| | | EvenBar(c)} | G4 |
| 1 | = | € enBar(c) 3 | |
| Sg | = | E } | |
| | = | | |
| | | | |

