Josha 12/11

Turn relati for exhibit lyns

 $Q_1 \times \Phi(x) \iff |\Phi(-)| \geq N_1$ Inhall by Mosfordian $C(Q_1)$ like L, ω / FOL great by $L(Q_1)$, M entern of FOL ω / $Q_2 \times 1$.

A provi, we rest to expect $C(Q_2) = L$, but

Fact $C(Q_1) = L$.

Pf CCQ2) = U L'a.

Ty mondan' L'a & L Ha.

Spo L'a & L, and corne L'att.

Lit X & L'att, X = \(\) a & L'a : L'a \(\) b \((a, \) b).

Ind. e \(\).

• LMA X = 9 a ∈ L'a! L'a = O1x + (x,5,a)].

Luf u bu a color o V 1+ u > a≥ 20;

Luf y = 2 c ∈ L'a! L'a = 4 (c,a,5) ?

x = 3 a ∈ L'a! 1×1 > 20; 3. Thu for all a ∈ L'a!

Luf = (3 β - 20; 3 f; y = 5) v (3 f; 20; 3 f; y = 5)

x = 2 a ∈ Lu: Luf a ∈ L'a A 3 f; 20; 3 f; 20; 3 f; 20; 4 f

· Wxy o(x,y) => o(-) is a wellorder.

Fact C(W) = L.

As before, whil

Lx F(JBJf: W -> 1 ade persong)

v (IF: f coles so descuby chan r W).

X= {a+Ln: Ln = a+L' , 3f31 f:W38}

CLK+1 EL.

Fact C(Q1, W) = L.

Colorby qualifica

Quxy d(x,y) => d(-,-) is a line and it citally w

I toland by Shelch

Coyact

Cx = C(Qw)

(V=L => C(L*)=L) Fact C* \$ L. if O# exerts.

Pf We then!

If 0# expts, the 0# @ (*.

In I is the course clob class it advantly for L.

STS then is an anothen X = I st X & C".

0 = { [+ (v, ... vn)] : L = + (x, ... xn) & x, ... xn ~ I }

X = { 2 × 22w: x regular x L ad ext (a) > w }.

Mode: X & C* ble on an della about ef w.

Clar X = I.

8,82..8n & a & 1, 12 1m.. 3 bt. Int fex/I. Lit S = max (En I) Spi x x Es 227 (7, ..., 8n, 1, ... 1, ... L+ A= {t(B,... P., J. ... J.) : P. -- B. < 8}, Az CL. 1A215563, a6 A2. Let M= rup rup Az 23, as cof3 > w, & regula x L. 2 4 => 2 5 %, controls colon. . Cx = [[{446 and 1 cif4= m3]. - ZFC-billy logics conduct L. schofadon vehidom abs. Of hory externos (?) MF\$ => \$ (M, b) → Y (M, +) E.g. Loo, w, game quantifier, LHYP Questro L (R, Ed: cif d= w3) FAD, \$ final so O(b), Assum L(s? If (M, (IR) whom R, L(R, {d: 66 x= 2})) Q 7, . R, C* & M, Myrda - Melte quarther Qmm xy + (x,y) => 3 × 1×1 > 21, 1 × 1x, ex + (x,y). · Con express Soushisty, hence hybrig ron-ebs. (- Le Feet. 1) (m (ZF) -> (m (C(QMM) + L) 2) 0* end -> ((Q,mr) = L. Lemi Sps (8a, CcL, al the or (n V) acountable B ist [R] & C. The Freehold of larger and older R.)