LCO1_12
Fernanda Oliveira Carneiro de Albuquerque
Questão 1:
a) (\lambda \lambda \l
a) (Na. Nb. a) (Na. aba) b ((Na. aaa) (Na. aa))
=> (/c //d c) (// EPE) p ((//d ddd) (// PP))
Carried and Aggreen Ball
= (yc yq c) (yt tpt) p ((yp pp) (yp pp) (yp pp)) caminpo 4; (yd ddd) (yp pp)
(yc. yq.c) (yt. tpt) p ((yp. pp) (yp. pp) (yp. pp))
B (yc ya c) (yt tpt) p ((yp pp) (yp pp) (yp pp))
∞
caminho 2: (Xc. Xd.c)(Xf. fbf)
Bo (Na(NE FDE)) p ((Ng. ggg) (Nh. hh))
9 000 amin
β () d () C () () () () () () () () (
B C (yq(yttpt))p ((yp.pp)(yp.pp)) ∞
The last decide of the continue of the continu

b)(ha hb b) ((hb ha aba)(ha aba)(ha aba))
~ (/c./d.d)((/e./f.fe)b)((/g.gbg)(/h.hb))
· caminho 1: (\lambda e. \lambda f. fe) b
- (λc. λd. d) (λε. εb) ((λg. gbg) (λh. hh))
-B D (/c. /d. d) (/F.FD) ((/h.hh) b (/h.hh))
Bo (Ac. Ad. d) (Af fb) (bb (Ah. hh))
β (λc. λd. d) ((bb(λh. hh))b) M a
<u>β</u> > λd.d
· caminho 2: (/g. gbg)(/h.nh)
Bo(Ac. Ad. d)((Ae. AF. Fe)b)((Ah. hh)b(Ah. hh))
Br (\lambda c. \lambda d) ((\lambda e. \lambda F. Fe) b) (bb (\lambda h. hh)) M 3
Br (/c. /d. d) (/F. Fb) (bb (/h. hh))
Bo (/c. /d.d) ((bb (/h. hh))b) M 3
—□ \\d. d

c) (Aa. Aa.b) ((Ab. Aa. ab) b) ((Aa. aba) (Aa.aa))
· Caminho 1: (Ne. XF. er) b) ((Ng. gbg)(Nh. hh))
Bo (Nc. Nd. p) (NF. pt) ((Ng. gbg) (Nh. nh))
B (yc. yq p) (yt. pt) ((yp. pp) p (yp. pp))
Bo (ya p) (pp (yp pp))
B b
· caminho 2: (kg.gbg)(kh.hh)
-β (λc. λd. b) ((λe. λf. ef) b) ((λh. hh) b (λh. hh))
-β > (λc. λd. b) ((λe. λf. ef) b) (bb (λb. hb))
$\frac{\beta}{\beta} > (yq p)(pp(yp pp)(pp(yp pp))$
B P P

d)(1/2, 1/2, 1/2)(1/2)	
d)(13.16 b)(16(13.3b)b)((13.3ba)(13.3a))	
~ (\lambdac. \lad)(\le(\lf. fe) e) ((\lag. gbg)(\lambdah. hh)) . Caminho 1: (\le(\lf. fe) e)	
Bo (xc yq.q) (yeee) ((yq.qbq) (yh hh))	
$\frac{\beta}{m}$ $\frac{\beta}{a}$ $\frac{\beta}$	
Bo (Ac. Ad.d) (Ae.ee) (bb(Ah.hh))	
B > (79.9)(PP(YP PH))	
Bo pp (yn pp)	
· caminho 2: (/g. g/g) (/h.h/h)	
Br (xc. yq.q) (ye (xr. le)e) ((xr. ln) p (xr. ln))	
Br (Ac. Ad d) (Ae.(AF.fe)e) (bb(Ah.hh))	
M 3	
Bo (yard) (pp(yr ry))	
B > bb (\h.hh)	