LAMBOA CALCULUS WEEK! I

EXPRISE!

((\(\lambda f. \( \lambda \times \)))(\( \lambda g. \lambda y. 9 (9 (y))))...

APPLY FIRE APPLY 2

I FIRST NESTED APPLY 2 IN APPLY 3 30,

(APPLY TWKE, APPLY TWICE, APPLY TWICE)
THEN THE APPLY TWICE TAKES ANOTHER
FUNCTION, Z+t, SO,

(+1,+1,+1,+1,+1)0 MIT INSERTING THE O, GIVES US (6)

EXERCISE 7:  $W(w) = \lambda x = \chi(x)(x(x))$ EXERCISE 7:

(i) Axyz, xzyz

(ii) abodefgh

(iii) (2xy 1 yx (2V, V)Z)U) (2w.w

6(;)((xx)x)x))

(ii) (2x.x)(2y.y)

(iii) nx. (x(2y.(yx)x))xx

KER COMP PRACTICE 101):) TERM WITH PARENTHESIS UMANDEGROUSLY 11) NOTEAN TEAN iii) TERM IN) TERM V) TERM (6) i) Nxyz.z(xy) ii) Ay.yyyy iii)λy.*y*y((λx.x)(λx.x))

