Adjustment towards RCE. Leto consider the thermodynamic egn. in pressure coondo, ventically integrated

Co 2/T/ - 2v(1+0) + / 200)

Ot cloud ckan sky cooling heating For Laro leto assume it obeyo Newton's aw of cooling: \Qro> = -Q\t\\ Tr For convection, it worms the atmosphere so long as TX Tex temp. of convection "T that comes from Im" $\frac{\partial \langle T \rangle}{\partial t} = \frac{\langle T \rangle - \langle T_c \rangle}{T_c} - \frac{\langle T \rangle}{T_r}$ 1 conv. edj. timescale Diabatic heating from conv. >> radictive coolings : XT7 = XT>- LTe> Has a solution of the form: $477(t) = 47c7(1-17e^{-\frac{t}{tc}})$ It initial condition

At t > 0 the exponential becomes <T7(t -> 00) = <To>