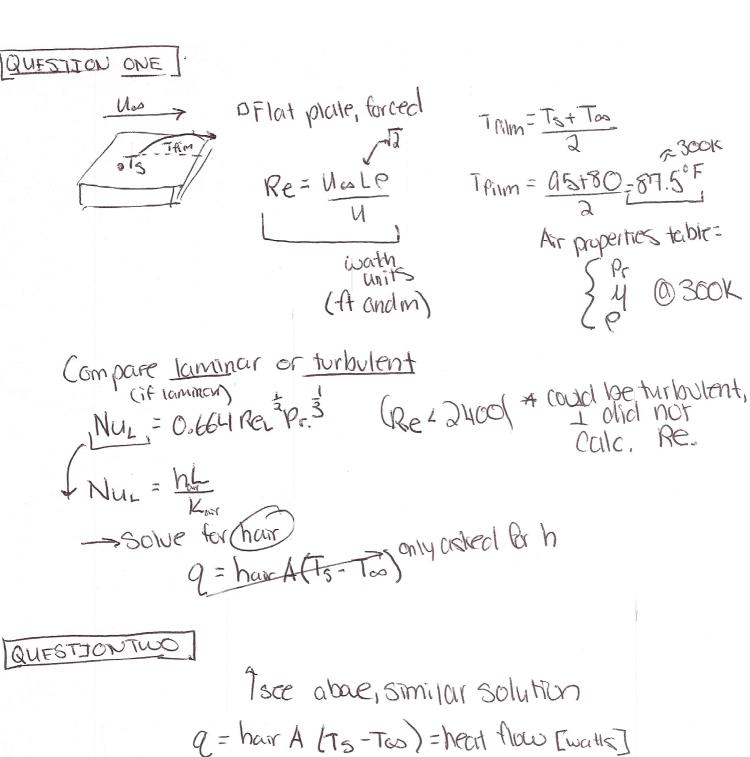
Re = U = Lex length Trim = Ts + Tos MATURAL CONV. Me Crabbes +> physical and thermal properties (Pr. 11, Px, eta) 1 brosof# We know : BD - characteristic !

"length" Re, Pr(tables) @ Ny=f(Re, Pr) 3 h = k. Nu Q=LA LTS-Ta we have solved for This, the heat (convective) transfer coefficient!



REMEMBER:

Q = hair A [Ts-Two] = heart flow [wates]

Q = flox = 2 [wates]

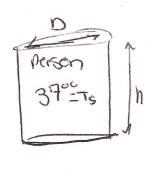
A [ma]

qui har (To-Ta)

If you have start - Log mean AT = and end temp.	DTOW - STM QUEDION
We have 7s and Tw, so ose Thim.	70170
Term - Thermal and physical pro	operties ofwater
Re = (0.2 kg) (0.02m) (P)	This case heating
Re turbulent or laminar	n=0.4 not actually check Re#
if turbulent (guessing) *elid Nu, = 0.023 Reps pr	
Mu, D= (h)	
q"= h (Ts-Twater)	

LIKEE

QUESTION FOUR



a) Forced, over cylinder

Use Thim = Tst Tas
tables

Nu, D=BRe, DPr3

Q = h A (Ts-Ta) b) Natural convection, over cylinder

defined in sticles! also in loook; book is very helpful.

A Be care for about characteristic length.