## OFFICE HOURS 4/10/2018

PROB. ONE M=0.05	Product Cw,s
Nw,x = Dx,w A Cw,s - C L Pw; @ 30° = 0,042barr	RH = $21\%$ .  RH 7. = $P\omega$ Puls @ 30°°
PuVw=NwRT = Mw F Mw Mw=Cw=PwMh Vw RT	with with
$Cw = \frac{Pw \cdot Mu'}{RT}$ $W  Ww, x = 0xw / 1$	total surface over
	Carle Catter Line of the Contraction
	1000

PROB TWO:

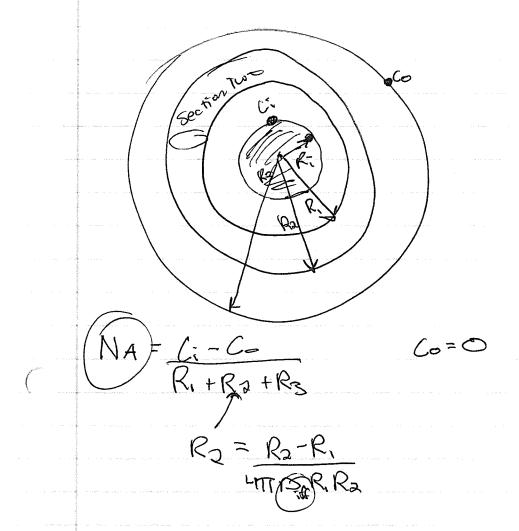
(1) 
$$R = \frac{C_{A1} - C_{A2}}{R}$$

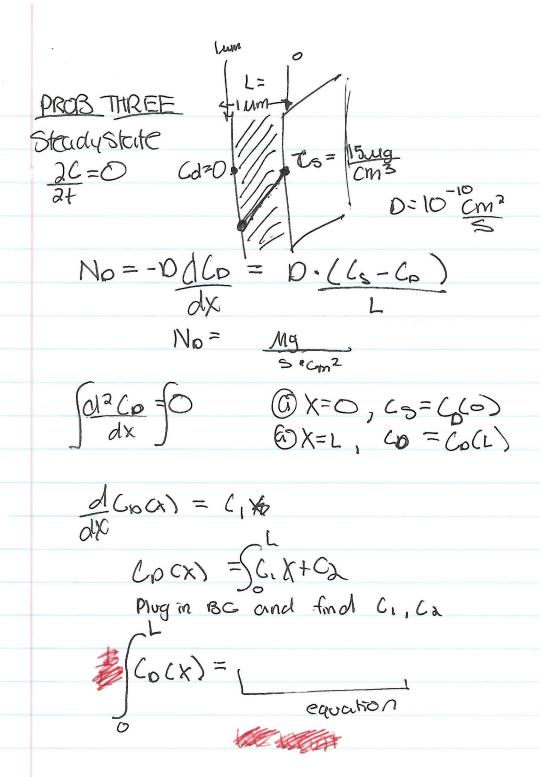
$$R = \frac{R_0 - R_1}{R}$$

$$\frac{\partial f}{\partial t} = D \left[ \frac{1}{1} \frac{\partial}{\partial t} \left( \frac{1}{1} \frac{\partial C}{\partial t} \right) \right]$$

$$0 = D \left[ \frac{1}{1} \frac{\partial}{\partial t} \left( \frac{1}{1} \frac{\partial C}{\partial t} \right) \right]$$

plug in (BC) solve for G, Ga Muss profile CA (1) = f(r)





	prois four
1V	=L X=E 1storder rxn
~	Kmehtcs: -k"c = dC
/:= <sup>0</sup>	300mmo1=Cs ML K=1000mm lmm
	$D = 2e^{-10} \frac{m^2}{2}$
	5
	steady state, rxn, 1-D, no convection
	300 = C = C3 @ X=0
	$O = C = C$ ; (a) $X = L$ $A = \frac{dC}{dt} = -kC$
	0=0 d2 = KC
9450	0
	C(X) = emx - emx - emx - emx m= 75
	$ \int m = \sqrt{\frac{1000}{2e^{70}}} $
Pener astria. — National de la company de la	-mX
	$\frac{Ccx)}{Cs} = C$ $2.9c^{5}x$
	CLX) = C
	C358 0-1-65
رد	0.1(s=e5x) 0.1.6s
No.	1.10 -10/10

4)  $N_A = D \frac{dCx}{dx}|_{x=0}$ 

NA= ADC= Ame