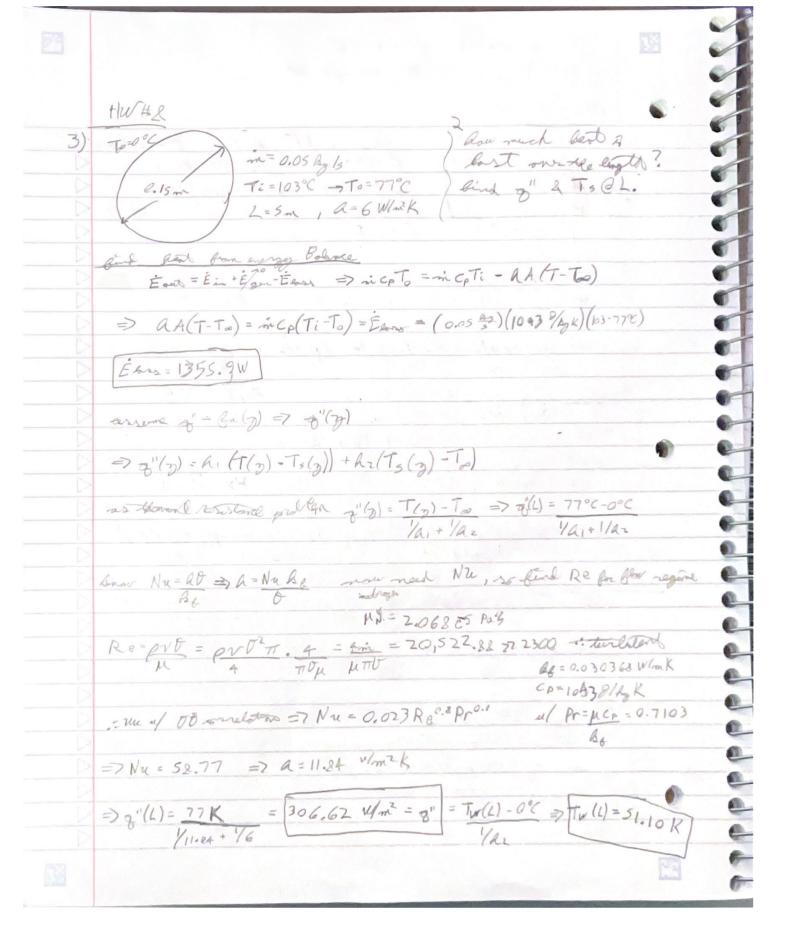
- son that projection - 55, invesced , no heart zen 1) water @ dem possure - bully developed ringle photo (Find To @ epel 6m - L) > mis a.o. mas: $\partial \rho + \partial \rho V = 0 \Rightarrow \mathcal{L}$ is constant $\partial t \partial x = 0, \text{ or } \text{ o$ => - 3P = TF gw = fpr2
A 2 (0 energy: 360 + 3 par = 2'51 + 2" W/a=CFT => & a(cpT) = 8"ga => aT = 3"ga => T = = 3 Bax + To => (T-Ti) 8 cpA = 1 8cpA = 9" Sa u/ T= 80°C, Ti=20°C, Cp=41828/Bg.K, q"=2000 W/m2 8=pv= ilA => &A=in=0.01 8/5, 9 n=TO=TI(6e-2m) e=(60°C)(0.01°s)(4182°s) = 6.656m= l goss, FO 19 is a good george Tw=q"+To red A => Nu=a0 = 4.36 => a= Nu he m/ Ac = 0.66 R= (4.36)(0.66) = 47.96 (6e-2) Tw=(2000) +Tg = [121.70°C=Tw]
(47.96) no, His not a good assumption as TW>TV bully deretoped is not a good assumption as there is a woper Gelm Cormeny.

HW #2 - Land - Single \$, 55 , unform 2) properties m =0.1 start ul same es as 21 mars: 2 pv=0 2 gis constant energy: 21 2(xT) = 2'3a => 5T = 3"3a => T= 3"3a x +Ti => (To-Ti) SCA = l of To=60°C, Ti=20°C, SA=in=0.1 B/s/ B'Sa Cp=4182 Magk, SA= TI(20c3-1) 0 8" A = g"+ => 3" = g"+ = (106 V/m) [# (ADE)] - (2003) L] = 15,000 W/m2

A T(200-3) L => l= (40°C)(0.1)(4182) = [17. 749 m= l (15 poo) (T (20e-31) B= R(To-Ti)=> R = 1500 W/m2 = [15,000 W/m2 K= A



for 6, relate p" > 1 78" for Toin to me the averaged one HW# 8- cont 1-25m - arrune FO, contact property, 55 P=252 Bg/m3, A6-Q132 W/m K = 0.032 Ag/m5 1 Cp=2131 g/Ag K Fina To & & Start w/ proporter => 28 = C 1. 9 vortents

per 27 - 27 - 28 - C - 0,0=0° momentum: 200 + 270V2 = -2P - To Bu - pg sin a energy: 3 pl + 3 plar = 3"3" = 2 Bcp 2T = 9" SA => 0 = 80 effo(a Sa) => Tex) = To - (To-To) exp(- a ER x) find Aul Nu => Re gor flow regime Re= pr0 = 397.89 1. Lamin =2 Nu=3.66 = RO => Q=3.66 be = 10.102 W/m2K ::T(L)=24.751°6 and &= mep AT = 5062.14 W

MWH8-int

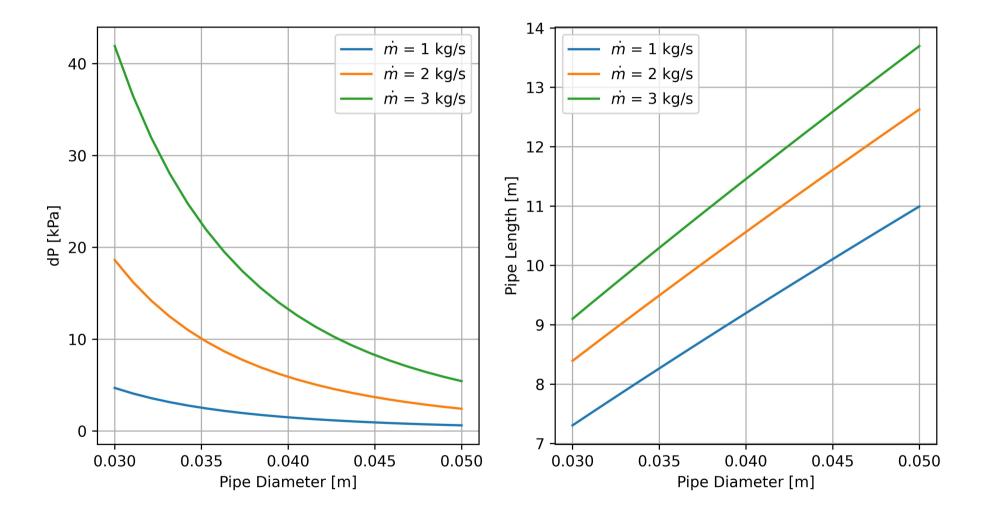
Stars w/

many: 28=0 :. 8 is involate

20

monestry: 82 1 = -2P. - Tp. 3 = 2 -2P = T63 = 20

/27 0 20 A 20 A ragge: To=8182 some soln or gf, so => ln/00 = R\$ L => L = cp in en/00 | Pr = \(\mu \chi_0 = 6.2033\) u/ a= Nuke = 0.023 Re 0.8 Prot & = 6918.15 W/m2K :. L = cpm en/25°C-100°C = [10.5696 m=L fa 75°C 6 => AP= & 82 8 2 u/ &= (0.79 an(Re)-1.64) = 0.0174 AP=5823.153 APa graphs shown below



HW#8-1010 0 3" = 30 Min (T3/L) FO Bird 3" feel, Tobusts, max refore try Start of Ct of bul rad Ent - Egen = 7 T Dg'dy = 3" T DZ dy = 3" = 72 dy = 702" dy = g'dy next continuity 29 =0 regrate & maratino: - 3P = [5 4 + 09 Deregg: OT = 8"5 w/ 8"-3' L B" = 3' = A 3" infT? => 5To = Ago vie(Tr) => To = Ango L (1-co)(Tr) + To.o (2) angrage but tong bound by 15To Cpir H (3 - Lain () + TOIOX =>= = Axx 80 L + Teo 16

