Please use these for uploading to Gradescope. Put your final answer in the box provided.

Problem 1

500000 Pax 18: 72.5

72.5 Psi

:. 110 bd. X 6894.8 by = 758428 ba

7.58×10 Pa

520 tors x 133.32 pm x 1 atm = 0.684

0.684 atm

1 pm = 100,000 Ru

18+m=1.0133 X103 Pa

100,000 pg 0.030643 bar

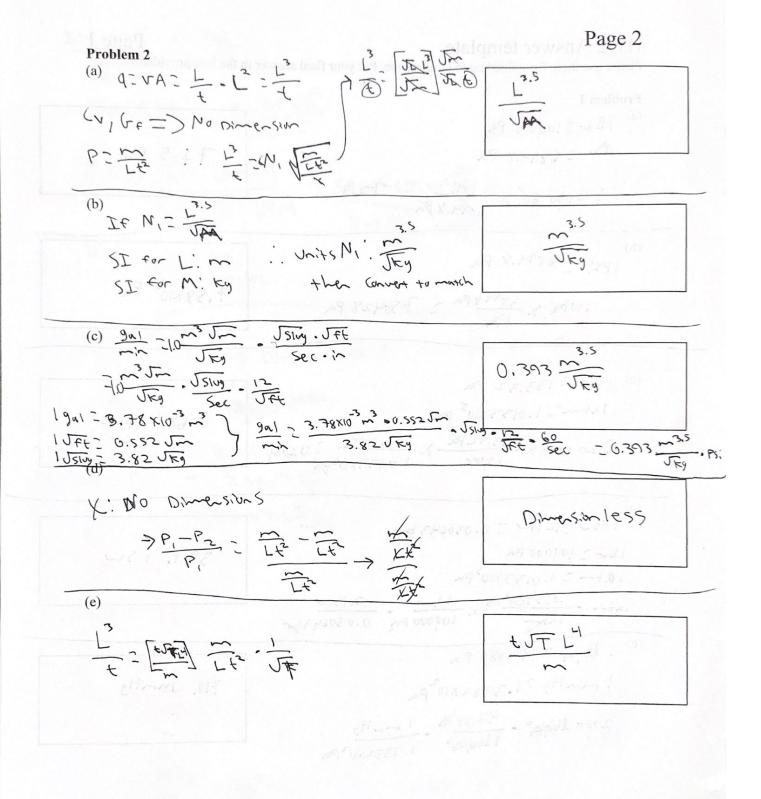
397. isw

(e) 1 ph/43 = 1/4.880 bo

1 mm Hg 21.3332 X10 Pa

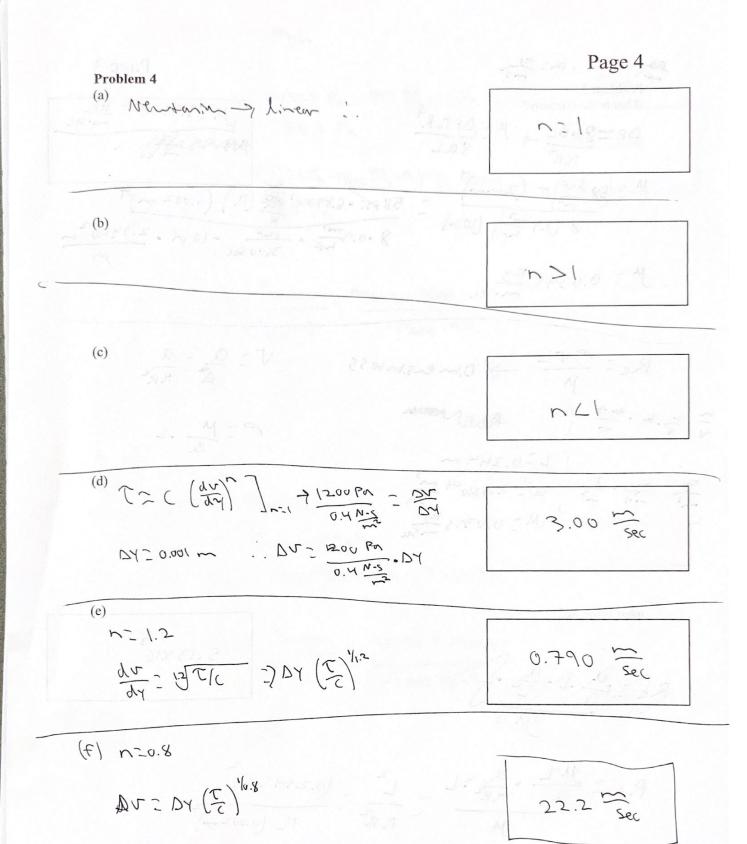
2000 Spokes - 17pb/kes - 1 -- 170 - 1.3332 x103 Par

718. mmHy



Problem 3

| | DP = 8 yral 7 M= DPTRH 80L W= == 150 |
|----|---|
| | NEW PS. 1 |
| | 258PS; -689×103 Pa -11. (0.002 m) - 0.0395 kg - 58PS; -689×103 Pa -11. (0.002 m) - 0.0395 kg - 0.9 mi - 1hr - 3600 Sec - 10 in - 2.54 ×103 m |
| · | |
| | $Re = \frac{PVL}{JA}$ $P = 1000 \frac{kg}{m^3}$ $V = \frac{Q}{A} = \frac{Q}{T(R^2)}$ $L = 20.002 m$ $JA = 3.95 \times 10^2 \frac{kg}{m^3}$ |
| | Rez 1000 kg - 0.9 kg - 1 (0.002 m) = 0.002 m |
| | 3.95×10-2 129 |
| | Re-1007.31 |
| | 1.01 × 10 |
| | |
| | |
| 01 | |



P2-P1 - Pgh

Problem 5
What is hi?

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h, = P2 merc - P2 merc - 90663 - 98687 = 0.06 m - Pmerc 9 - 13600 . 9.8

What is h_2 ?

Pz mac = 90663Pa

Pimer = Pamer + Pgh

-90663 + 13600.9.8.0.05 = 97327 Pa

52.4 Cm

P= 56 = 0.00078 #9

Problem 6

PA- PM 9 (0.17) + PA 9 (0.14) + PM 9 (0.18) -PM (0.98) = 101325 Pa sun 15 pp. 12 will-

1,32×102 KPa

h= 1.2m (os (350) =0.98

P= 13600 kg 9= 9.8 m : PA= 101325 + 30472

PA-1.18 kg

Pw= 997 kg

101325 = 135000 - Pmg (0.17) + Pxg (0.14) + Pxg (0.18) - Pxg h

101325 = 114102.7 - Pgh -> h = 12777 - 1.33 m

Problem 7

(a) The molecules in a fluid can flow around each other so it will always move

False

(b)
$$P: \frac{k_9}{m^2 s^3} \rightarrow \frac{M}{L^2 t^3} = \begin{bmatrix} \frac{L_4}{L_4} \end{bmatrix} \frac{\pi L^2}{ML^2}$$

$$Q: \frac{L^3}{ML^3} \rightarrow \frac{M}{ML^3} = \frac{L^2 t^3}{L^2 t^3} = \frac{L^4}{L^4} = \frac{L^4}{ML^3} = \frac{L^4}{ML^3}$$

(C-) TH

(c)
APSONIATION

CONTORPOSTATION

False

RANKSON

DP-Pgh=997kg-9.85 .1 - = 9770.6 Pa = 9.77 kPa

