(8) a)
$$\frac{M}{Lt^2} = \frac{M}{L^3} = \frac{L^2}{L^3} = \frac{M}{L^3} = \frac{M^2}{L^3T^2} = \frac{M}{L^3T^2} = \frac{M}{L^3} = \frac{1}{L^3} = \frac{1}{L^3} = \frac{1}{L^3}$$

Fluid Homework - Fluid Muss + Ideal Gress

May 18 2020

$$(1.30) \quad (1 \text{ km}^3) \cdot (0.621371)^3 =$$

$$= 0.24 \text{ mi}^3$$

$$(1 \text{ km}^3) \cdot (1000)^3 \cdot (0.2) \cdot (0.06220462)$$

$$= 440924 \text{ lb}$$

(1.35)
$$1.15 = \frac{P}{1000} = 1150 \frac{kg}{m^3} P$$
, $1.15 = \frac{\lambda}{9.807}$, $\lambda = 11.28 \frac{kV}{m^3}$

= 223 K

$$R = 188.9 \frac{m^3 Pa}{kg. k}$$
 $RT = \frac{m}{V}, \frac{900}{188.9.223} = 0.02137 \frac{kg}{m^2}$
 $m = kg$

$$\frac{60-32}{1.8} + 273 = 288.55$$

$$\frac{110-32}{1.8} + 273 = 316.3, \quad Ap = \frac{316.3}{286.5} (96) = 98.67 P/ma$$

Viscosity

May 19 2020 (1.55)

M= 1.002E-3

T: dx, M, 1.002E-3 = dy = 9985"

(1.57) t- 1430 s

E KRYS VG - 1.19E-3 - 8.32E-7 m/sa

V= 8.32£-7.900 = 0.0007488 m2/s

M-0,0007468.900 kg/m3

M=0.67392 kg/ms

5E-4 poise = 5E-4 (0.1) Pars = 5E-4 (0.0671969) 5E-5Pars = 0.000033598 PAS

 $L \cdot 1.458E - 6$ $S = 110.4168E - 6.283^{3/2}$ $M = 1.458E - 6(363)^{3/2}$ T = 10 + 272 T = 10 + 272(1.67) 1: 1.458 E-6

T=10+273 = 0.000017644 = 0.0000213

To= 90+273

17.1E-5=De B/40 1.9E-5=De B/40 1.9E-5=De B/80 D = 7.16-5 871.904 B-576.206574

- In(1.9E-5)= InD+B/160

In (7.16-5) = B - 8/150 (7/15 5 28.96-6 1 De

 $1.31824 = \frac{118}{600} - 38 = 71.9$

In (7.1E-5) = InD+B/40 D=/11.76×10-6/19/19

16 = 1.76 E-6 e 71.9/86/4 - 746 E-13

1.72 1=150 Pa = 150 M/2 d=2mm =0.002 m 1/= 1 m/s 150 = M. 1 0.002 M=0.3 N-S (73) F= Fo ,: 4. A= To A, &= & Since Pt. 76 M+ dr - Mode 2M(V-V) = MVi 2cb - V1 0.6 2c = V-V 1-C = V-V. 1 = V-1 1 + 1/2 = V (0,0) 0.5 (0.5,0.6) 1+C = V Kg (1,1) : Y= 24 AETTOLDS 1105 |Fr= |Fv= 2-A 1.77 = 11.0.025.0.5 = 11.0.0125 m $\frac{du}{dy} = \frac{\sqrt{-0}}{0.0003} - \frac{\sqrt{0.0003}}{0.0003} = \frac{3}{0.0003} = \frac{100000}{5}$ T= M du M= PV - [8E-4][0.91.1000] - 0.728 kg D.00CET V=3m/g 7=10000-0-728=7280 Kg = 7280 N \$ 56=0.91

1.81)
$$\chi = M \cdot \frac{Vu}{V} \quad \chi = M \cdot \frac{du}{dy}$$
 $M = 1.002 = 3 \quad \frac{V_3}{m^2} \quad \chi = 24 \quad \frac{32}{12}$
 $M = 0.1 \text{ m}$
 $M = 2 \text{ m/s}$
 $M = 2 \text{$

M= 1.002E3.40 M= 0.04008 Pa

