

exam 26.05.2021 (Final Exam Thermal and fluid sciences laboratory)

- e) None of the above
- 30. Air enters an adiabatic nozzle steadily at 127°C with a velocity of 100 m/s and le at 77°C. The velocity at the nozzle exit is: (2 Points)
 - a) 561,30 m/s
 - (a) b) 648.46 m/s
 - (c) 461.11 m/s
 - (e) d) 333.14 m/s
 - e) None of the above

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	a) For a positive displacement reciprocating pump, the amount of fluid flow rate is independent of pump rotational speed, ω.
	b) Pumps extract energy from the fluid passing through.
	c) Pressure of the fluid at the exit of the pump is lower than the pressure of the fluid at the inlet of the pump.
	d) The performance of the pump is measured using coefficient of performance.
	e) All of the above is not correct
1	5. In " Liquid-vapor saturation curve" experiment only one statement of the following is correct: (2 Points)
	a) Saturation pressure and temperature are independent from each other.
	(a) b) Saturation pressure is the pressure at which the liquid changes phase into super-heated phase.
	c) Saturation temperature is the temperature at which the liquid becomes compressed liquid.
	d) Saturation temperature varies as pressure varies.
	e) None of the above is correct.

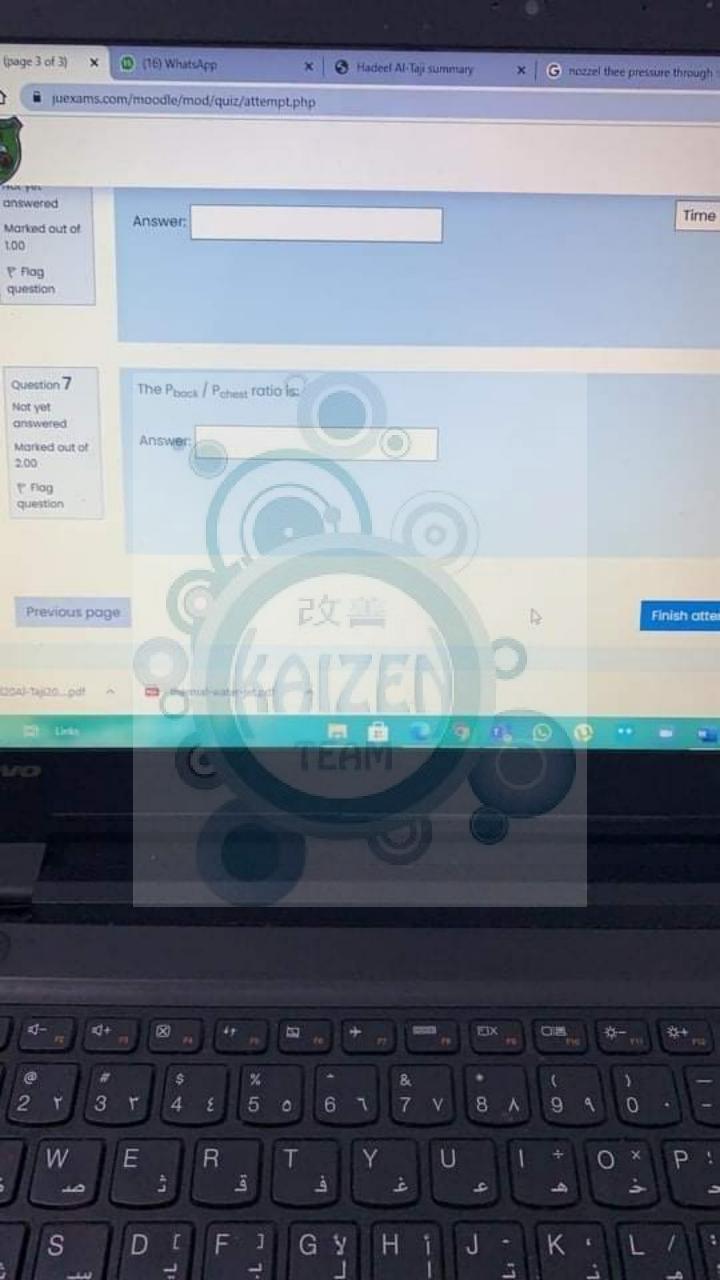
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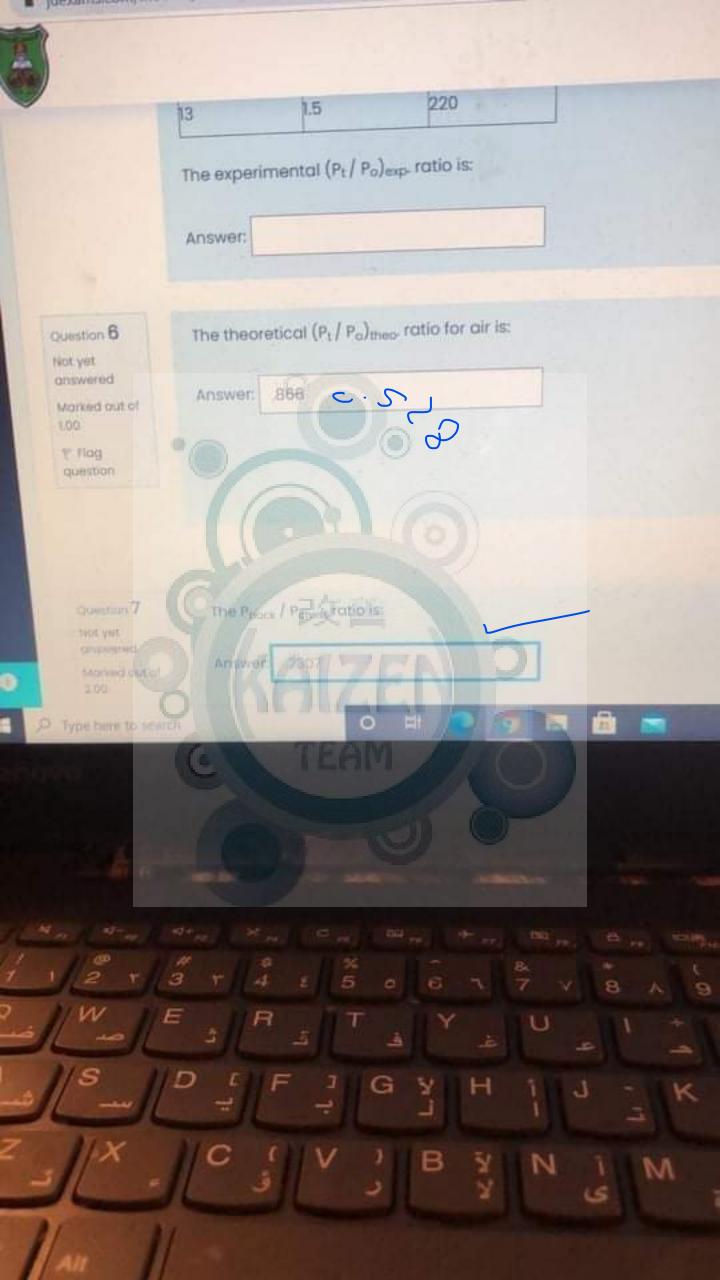
5.2021 (Final Exam Thermal and	fluid sciences la	boratory)			
24. In "comparison of pum (2 Points)			ent one of th	ne following st	tatement is o
a) For a positive displace rotational speed, ω.	cement reciproca	ting pump, the	amount of flui	id flow rate is ind	dependent of p
b) Pumps extract energ	y from the fluid p	passing through	h.		
c) Pressure of the fluid				ure of the fluid at	the inlet of the
d) The performance of					
e) All of the above is n	ot correct				
25. In " Liquid-vapor satur (2 Points)	ation curve e	xperiment on	ly one stater	nent of the fol	lowing is con
a) Saturation pressure	and temperature	are independen	it from each oth	ner.	
b) Saturation pressure	is the pressure at	which the liquid	d changes phase	e into super-heate	d phase.
c) Saturation tempera	ture is the temper	ature at which the	ne liquid becom	es compressed liq	juid.
d) Saturation tempera		aure varies.			
e) None of the above	is correct	Carri			
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		8 4			

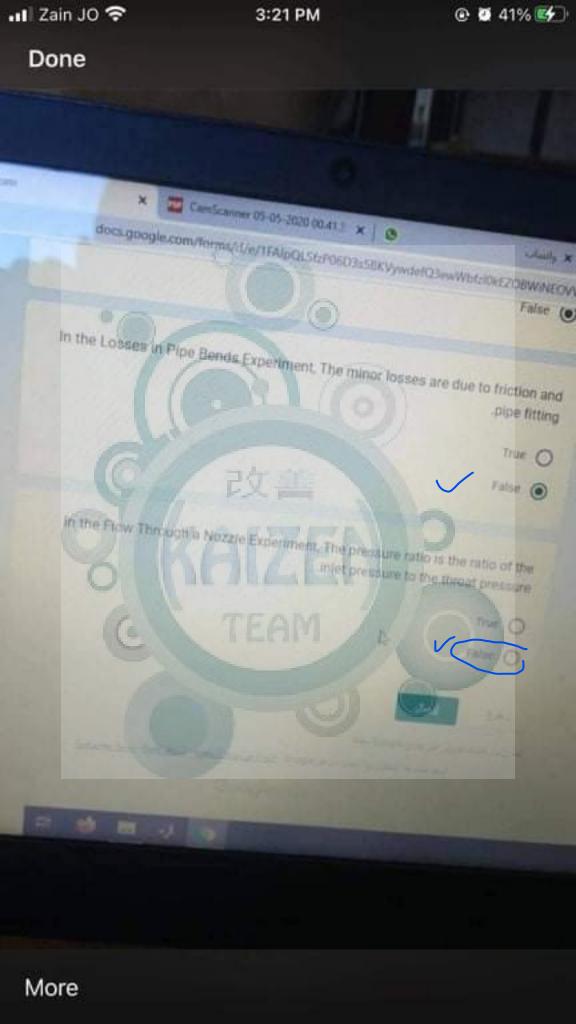




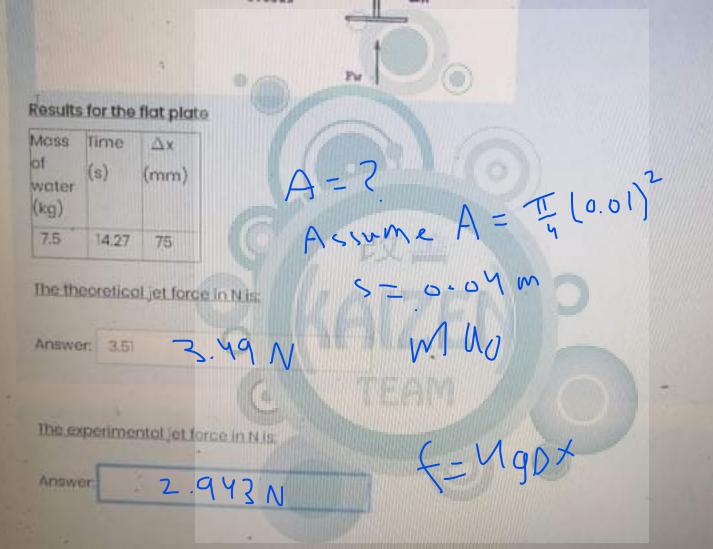
подтачіь Parallel Parmilel PRINCIPLE c. Convergent-Convergent-Divergent-Directions-11) The type of the nozzle used in the "flow through a nozzle" experiment is: aqm manometer gage pressure piezometer tube эним-тонч U-tube Piezoelectric Pressurized 10) In losses in pipes experiment, pressure change in globe valve is measured using: None of the above 234×10-3 48'S 1.84× 10-3 kg/s 292×10-3 kg/s TERK IO-S KEST norrate throat area is 9.16 × 10⁻⁶ m² and the throat absolute pressure is 265 kPa. The mass flow rate at nozzle throat is: th flow amorgan as 18 °C, the nir gas constant is 0.287 kJ/kg . K, the nir specific heat ratio is 1.4, "chest" temperature is 18 °C, the nir specific heat ratio is 1.4, 9) In flow dirough a nozzle experiment, the stagmation "chest" absolute pressure is 290 kPa, the stagma As the velocity increases in the direction of the flow, pressure decreases Cross section area of the nozzle increases in the direction of the flow Mass flow rate of the air increases as the area of the norsite decreases Both pressure and velocity decrease duough the norrie As pressure increases in the direction of the flow in the nextle, velocity decreases (Anty one of the following statement is correct with regards to the Flow through a nozzle experiment: avode artt To anovi 10 Diversit pressure is the gage pressure reading of the air supply tank p Meas flow rate is minimum if the noxyle is choleed of short process of the same reading in some of the state of the same of the s alexact pressure is minimum pressure reading finished the notation To "Flow through a mozzle" experiment, one of the following statements is correct: None of the above NOIS p N 1976 N. LOT N.00'9 of wave above notable outlet is 0.04 m and the diameter of notable is 0.01 m. If a homispherical cup is us 6) In impact of water fet experiment, the water density is 1000 kg/m³, the mass flow rate is 0.4 leg/x, the her







Question 1 In center of pressure experiment: $(P_{\text{Notes}} = 1000 \text{ kg/m}_3)$ with the following information: a = 0.1 m. b = 0.075 m. c = 0.3 m. d = 0.1 m. b = 0.075 m. c = 0.3 m. d = 0.1 m. b = 0.075 m. c = 0.3 m. d = 0.1 m. b = 0.075 m. c = 0.3 m. d = 0.1 m. b = 0.075 m. c = 0.3 m. d = 0.1 m. b = 0.075 m. c = 0.3 m. d = 0.1 m. b = 0.075 m. c = 0.3 m. d = 0.1 m. b = 0.075 m. c = 0.3 m. d = 0.1 m. b = 0.075 m. c = 0.3 m. d = 0.1 m. b = 0.075 m. c = 0.3 m. d = 0.1 m. b = 0.075 m. c = 0.3 m. d = 0.1 m. b = 0.075 m. c = 0.3 m. d = 0.1 m. b = 0.075 m. c =Not yet OTTOMETON Marind out of D 1700 question The Traciatical Yes in (cn) 2 The same and The experimental You'ri (cm) is CM 3.333 cm / 17.2 cm Partia

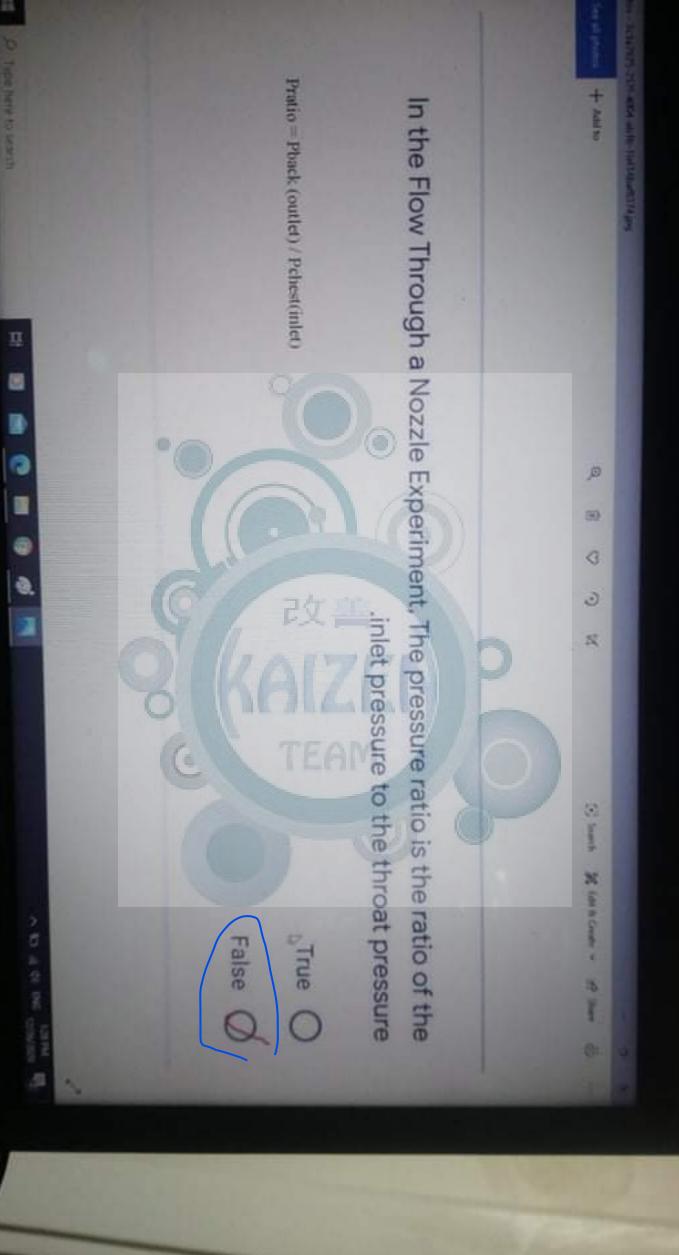


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	a) In impact of water jet experiment, the water density is 1000 kg/s of varie above mostale outlet is 0.04 in and the diameter of mag. 2. 0.10 h.		
	The second secon		
	of varie above mosals outlet is 0.04 in and the diameter of source in 0.30 N. b. 4.01 N. b. 4.01 N.	The race three rate to the	1 kg/s , the beigns
	h 401N	" 15 H. H. J. W. at Seemingshi	Wheel may be most,
	0. 7.64 N 0. 5.10 N		
100	a. Note of the above		
- 0	In "Flow through a norzie" experiment, one of the following ste 4. Throat pressure is minimum pressure readon; state to		
	Throat pressure is minimum pressure seading stade to Throat pressure is maximum.	femines is corpore	
	A throng pressure is maximum and the same to	minode .	
	The state of the graph properties out of the	supply task	100
8) (Only one of the following statement is correct with regards to it a. As pressure increases in the direction of the flees or the	911	
	As pressure increases in the direction of the flow in the Both pressure and velocity decreases.	ie Fless through a nozzle	experiment
	b. Both pressure and velocity decrease through the nozzle		ies
	c. Mass flow rate of the air increases as the arm of the		
	Alass Bow rate of the air increases as the area of the po-	value dans	
	d. Cross section area of the nozzle increases in the directi	ezzle decremes	
9) In "ch	d. Cross section area of the nozzle increases in the direction. e. As the velocity increases in the direction of the flow, p flow through a nozzle experiment, the increases.	on of the flow ressure decreases	0 kPs, the stagration
noz noz a. : b. : c. 1 d. 2 e. N	d. Cross section area of the nozzle increases in the direction of the Pow, p e. As the velocity increases in the direction of the Pow, p flow through a nozzle experiment, the stagnation "cheat" in nest" temperature is 18 °C, the air gas constant is 0.287 kg/s ezle throat area is 9.16 × 10 ° 6 m² and the throat absolute p ezle throat is: 3.63× 10 ° 3 kg/s 2.92× 10 ° 3 kg/s 2.34× 10 ° 3 kg/s None of the above	on of the flow reasons decreases throtate pressure is 20 fleg. W. the air specific restate is 265 kPa. The	0 kPs, the stagnation belts natio is 1.4, the many flow rate at the
noz noz a. : b. : c. 1 d. 2 e. N	d. Cross section area of the nezzle increases in the direction of the Plow, p e. As the velocity increases in the direction of the Plow, p flow through a nozzle experiment, the stagnation "chear" a nest" temperature is 18 °C, the air gas constant is 0.287 kJ/s ezle throat area is 9.16 × 10 ° 6 m² and the throat absolute p ezle throat is: 3.63×10 ° 3 kg/s 2.92×10 ° 3 kg/s 1.84×10 ° 3 kg/s 2.34×10 ° 3 kg/s	on of the flow resource decreases absolute pressure is 29 kg. K., the air specific resource is 265 kPa. The state of the pressure is 265 kPa. The state of the pressure of the	s. None of the above
noz noz a b; c I d. 2 e. N	d. Cross section area of the nozzle increases in the direction of the Pow, p flow through a nozzle experiment, the stagnation "chear" a sest" temperature is 18 °C, the air gas constant is 0.287 kJ/ ezle throat area is 9.16 × 10 ° 6 m² and the throat absolute p szle throat is: 3.63× 10 ° 3 kg/s 2.92× 10 ° 3 kg/s 2.94× 10 ° 3 kg/s 2.94× 10 ° 3 kg/s 2.95× 10 ° 4 kg/s 2.95× 10 ° 8 kg/s 2.95× 10 ° 10 ° 10 ° 10 ° 10 ° 10 ° 10 ° 10	on of the flow reasons decreases throtate pressure is 20 feg. K, the air specific reasons is 265 kPa. The measured using: d. Pitot-static er tube	neith ratio is 1.4, the many flow rate at the
noz noz a b; c l d. 2 e. N	d. Cross section area of the nozzle increases in the direction of the Bow, p flow through a nozzle experiment, the stagnation "theat" is nest" temperature in 18 °C, the air gas constant is 0.287 kg/s ezle throat area is 9.16 × 10 ° 6 m² and the throat absolute p ezle throat is: 3.63× 10 ° 3 kg/s 2.92× 10 ° 3 kg/s 2.92× 10 ° 3 kg/s 2.94× 10 ° 8 kg/s 2.92× 10 ° 3 kg/s 2.94× 10 ° 8 kg/s 2.95× 10 ° 2 kg/s 2.95× 10 ° 3 kg	on of the flow reasons decreases throtate pressure is 20 feg. K, the air specific reasons is 265 kPa. The measured using: d. Pitot-static er tube	neith ratio is 1.4, the many flow rate at the

@ Rul dulactelistics a Centrefegul Pourse (13) Pe-o bar / Pd=0.7 bar, a= 320×10 m3, P=1000 kg - F= 17.64 N, W= 15 SeV/S, R= 0.15 m Pun (Kw) = 99 @ hp = 103 € Do = Pu = 0.224 hp= AP + 10 = Pa-Pol 4705 0.249 = 0.899 0.7 bar (2)05 = 7.135 m \$ 0.901 (P(kw) - (000) (981) (3.2×10) (7135) ×100 (4) PB (KW) = 27 Wa FR *10= = 2x (15) (1764) (0.15) * 10-3 (F) Ps = 0 bor, Pd = 0.4 bor, Q = 1215 ms /2 1000 18/503, F= 17.64N W=17.64N + R=0.15 m Qc = (0.75) × 10-3 + WPLAP , Wp = 2 Wm = 2(17) Av = Qn = (0.75) ×10 × 34 = 34 fev 2.04 v/s = 2.04 × 6 m

(5)

For the following multiple choice questions, choose the most correct answer. For computations, show the detailed solution for each question to guarantee the grade. (2 points each)

[1-2]: In center of pressure experiment, if the plane surface is partially immersed, the water level h=4.0 cm, and the width of immersed surface b=7.5 cm. (Peeter = 9810 N/m²), Answer Problems (1-2))

		-		1
	c. 0.92 N	-	-	Amenda semico on Co.
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		1)	Te force on the plane surface
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3) Thermal conductivity of a material is

0	4	0	7	7	
e. All of the above	A measure of fiquids ability to convect near	The ability of a material to econduct best	b. The ability of a solid material to store heat	a. The resistance of a material to conduct heat through	The state of the s
		1	N I	d through	
			The state of the s		-

ment, if the following data were measured: mass flow rate of 0.2 kg/s, density of weter of small pipe size 14 mm; dynamic viscosity of water is $\mu = 1 \times 10^{-3} \text{N} \cdot \text{s}/\text{m}^2$ face is $\epsilon = 0.0015$ mm. Answer Problems (4-5); P= losok

4) The Reystold's mumber is:

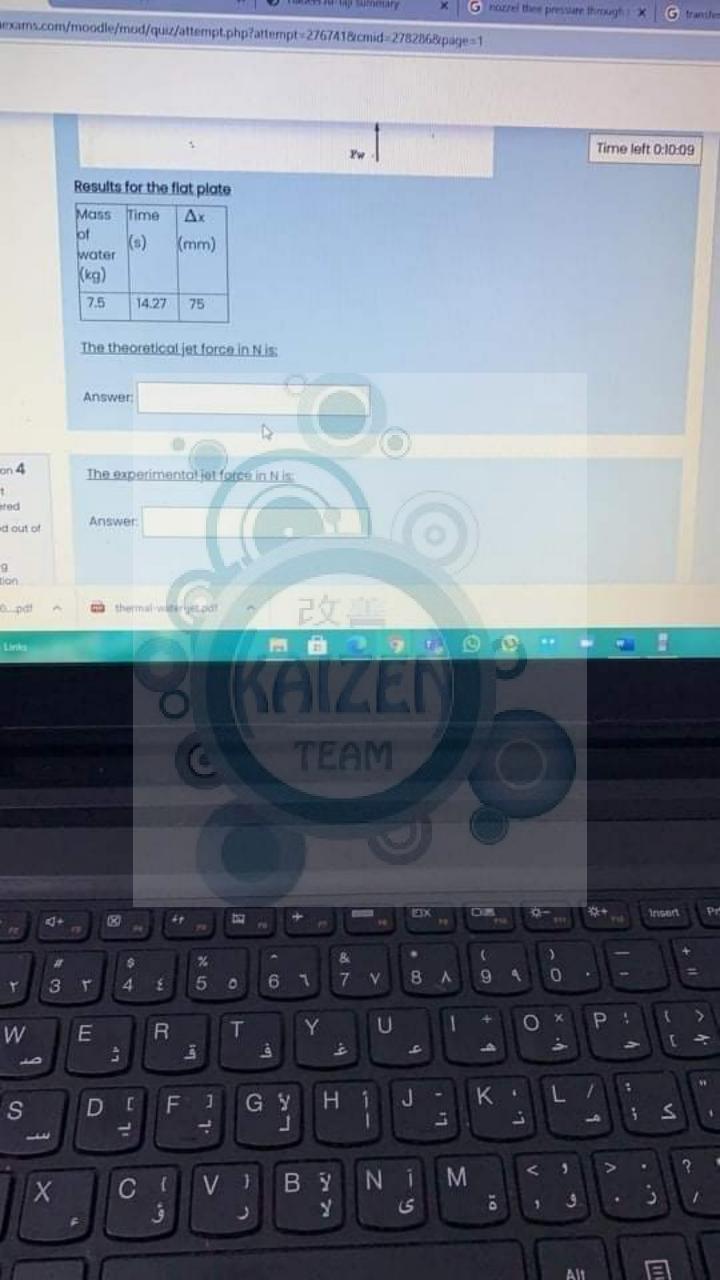
RL = 8V

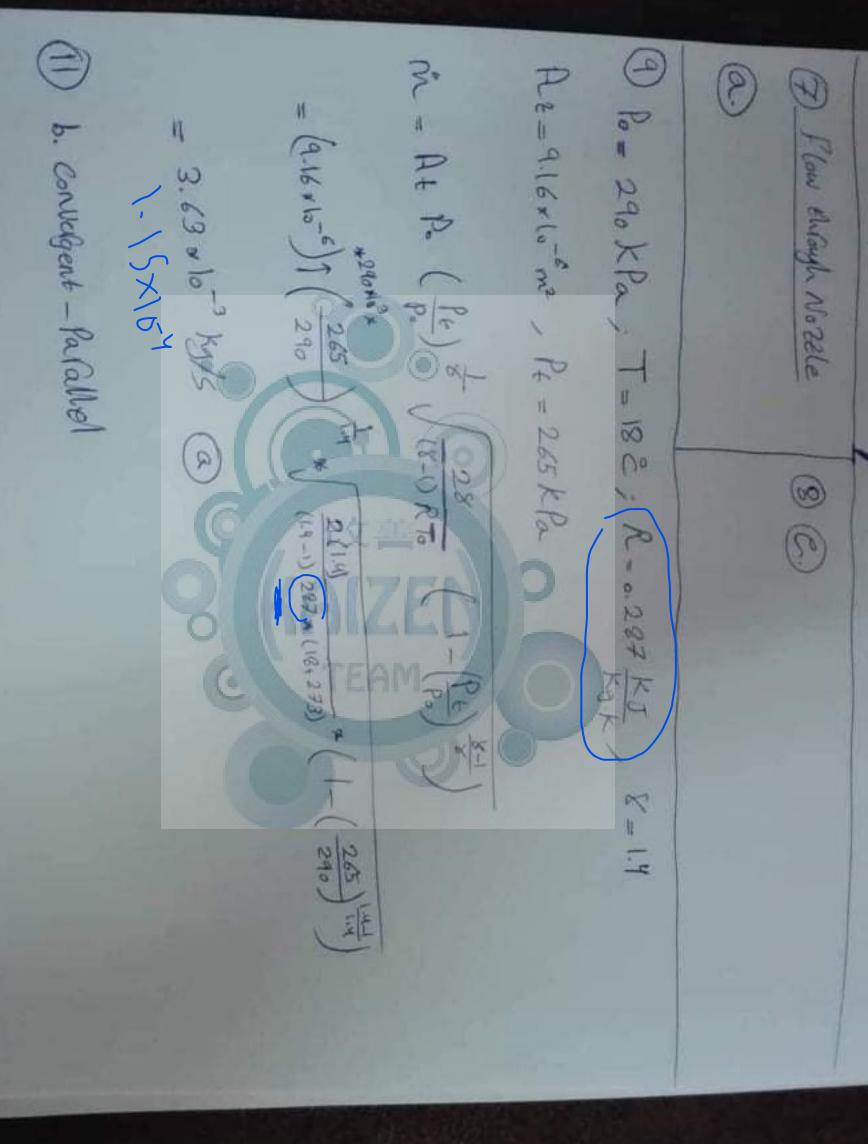
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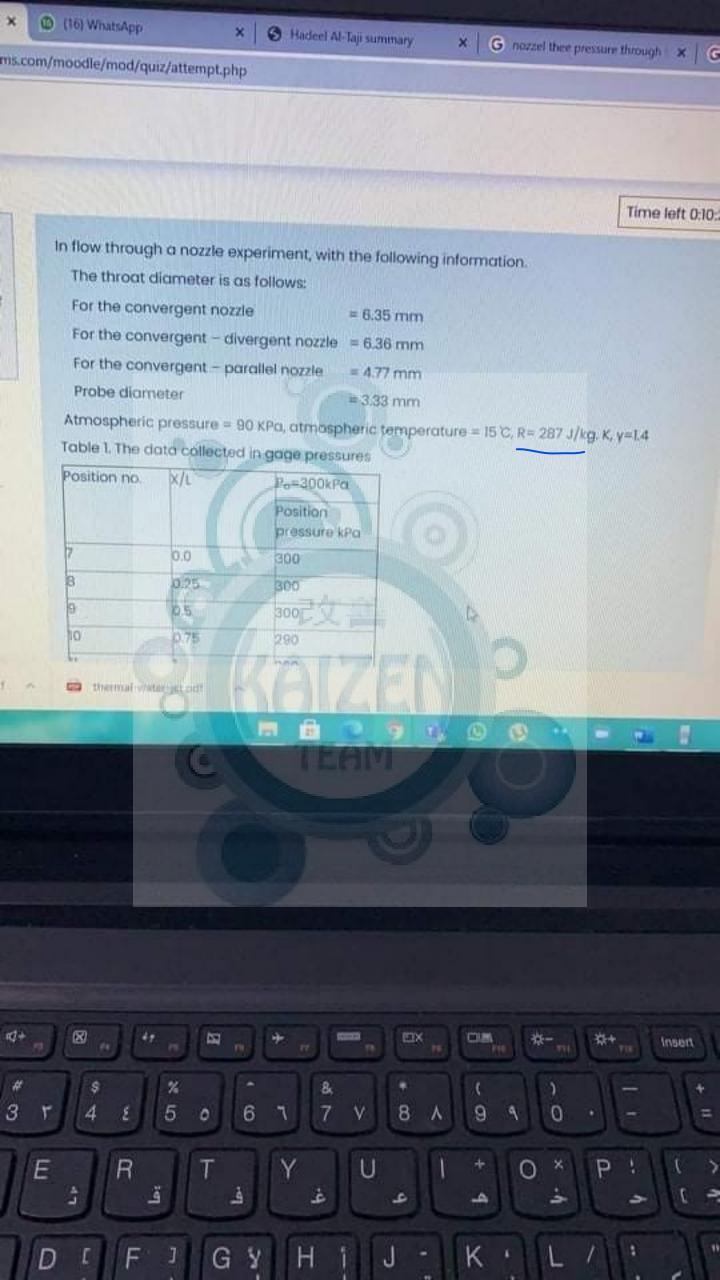
None of the above

5) The friction factor is:

- a 0.018 b. 0.034 c. 0.043 d. 0.027
- e. None of the above









For the following multiple choice questions, choose the most correct answer. For show the detailed solution for each question to guarantee the grade. (2 points

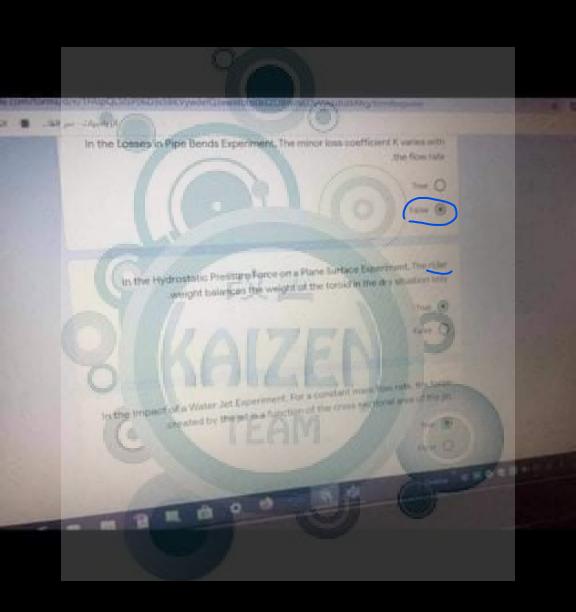
[1-2]: In center of pressure experiment, if the plane surface is partially immersed, the water level the width of immersed surface b=7.5 cm. $(y_{water} = 9810 \text{ N/m}^3)$. Answer Problems (1-2):

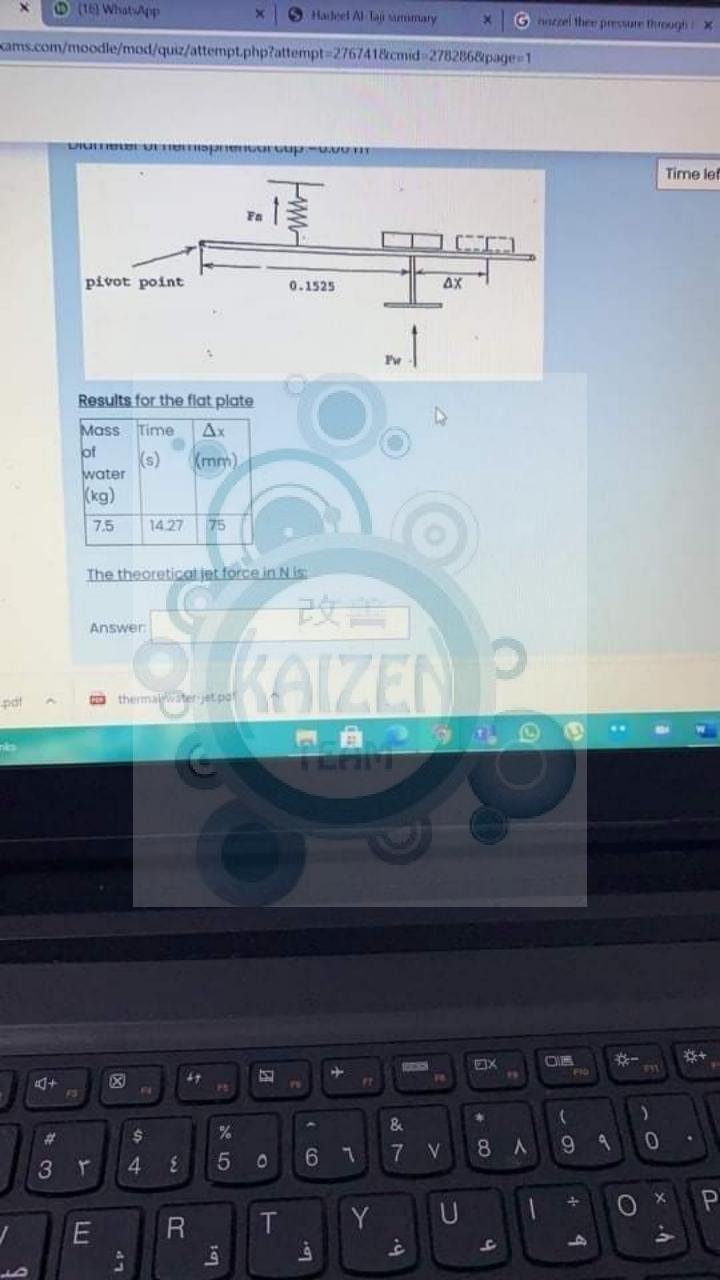
- The hydrostatic pressure force on the plane surface is:

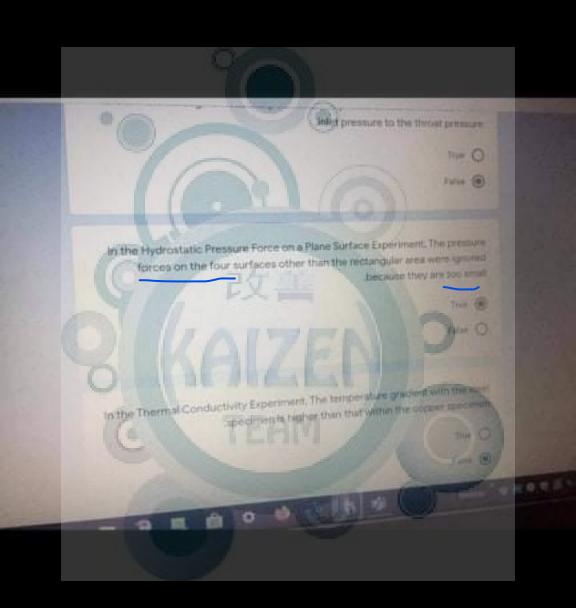
 - b. 0.33 N
 - 0.92 N
 - d. 0.15 N
 - e. None of the above
- 2) The theoretical center of pressure measured from the surface of the water is:
 - 1.33 cm
 - 2.67 cm
 - 2.00 cm
 - None of the above
- 3) Thermal conductivity of a material is
 - The resistance of a material to conduct heat through
 - The ability of a solid material to store heat
 - The ability of a material to conduct heaf
 - d. A measure of liquids ability to convect heat
 - All of the above

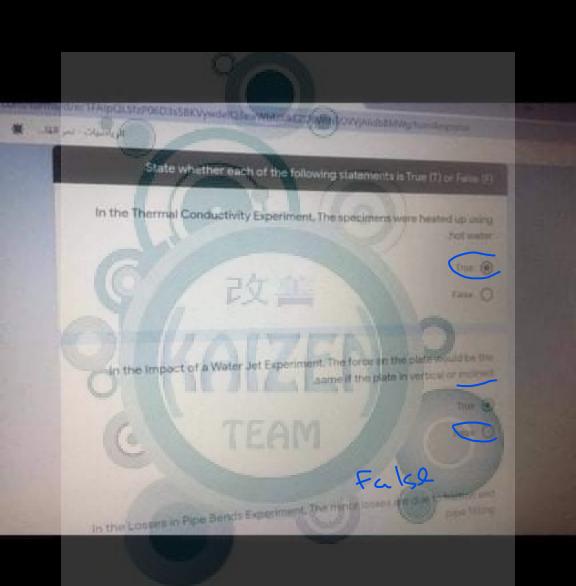
[4-5] In the losses experiment, if the following data were measured: mass flow rate of 0.2 kg/s, density of water is $\rho = 1000$ kg/m³, diameter of small pipe size 14 mm, dynamic viscosity of water is $\mu = 1 \times 10^{-3}$ N. s/m², roughness of the pipe surface is r = 0.0015 mm. Answer Problems (4-5): 4) The Reynolds number is:

- - 2100.12 4.
 - b. 18189,14
 - 57142.86
 - d. 36378.27
 - None of the above
- 5) The friction factor is:
 - a. 0.018
 - b. 0.034
 - £. 0.043
 - d. 0.027
 - e. None of the above











The line Course area
$$f$$
 = 0.0286

The line f = f = 0.2574 kg/s

 f = f



j

(B) & (B) : losses on Piles m - -2 19/5 / P. In 19/m2 Dent - 19 mm , P- 1-6" No. 5 \$ 0 mil C- --- 5me O-Re- Pu Dank - Shoot (XA) Danell - Wale (Re = 18189.14) Turbulant flow -2 alog (2 Jayuna 8-0.027 a (6) C 16 REAL PUR 0125 = ((00) U + X (1446-3) o.1 = K (1624)2 2(9.81) * U= 1.624 m/s K = 0.744

The theoretical jet force in N is:

Answer:

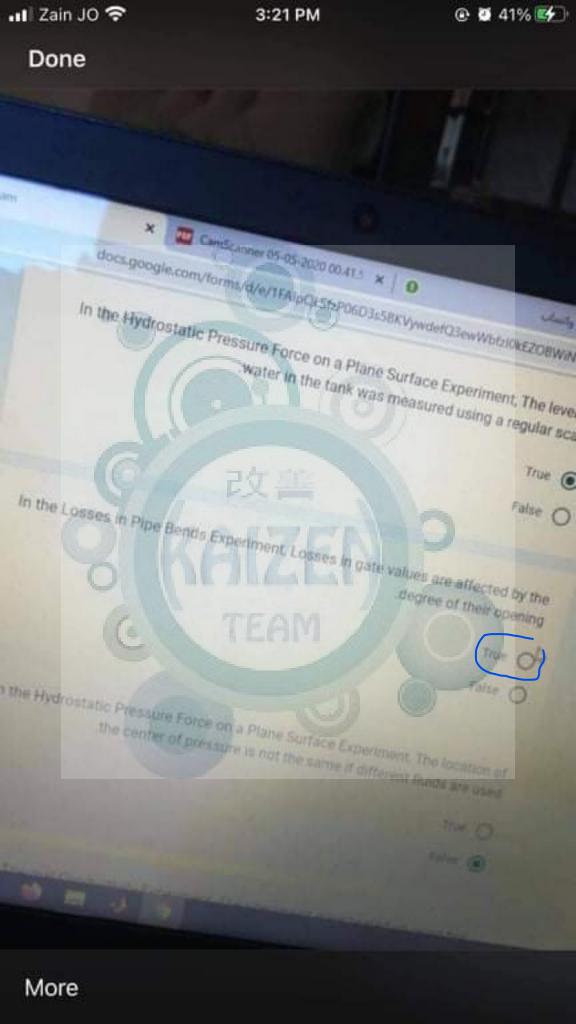
3.51 N

You must enter a valid number. Do not include a unit in your response.

The experimental jet force in N is:

Answer:

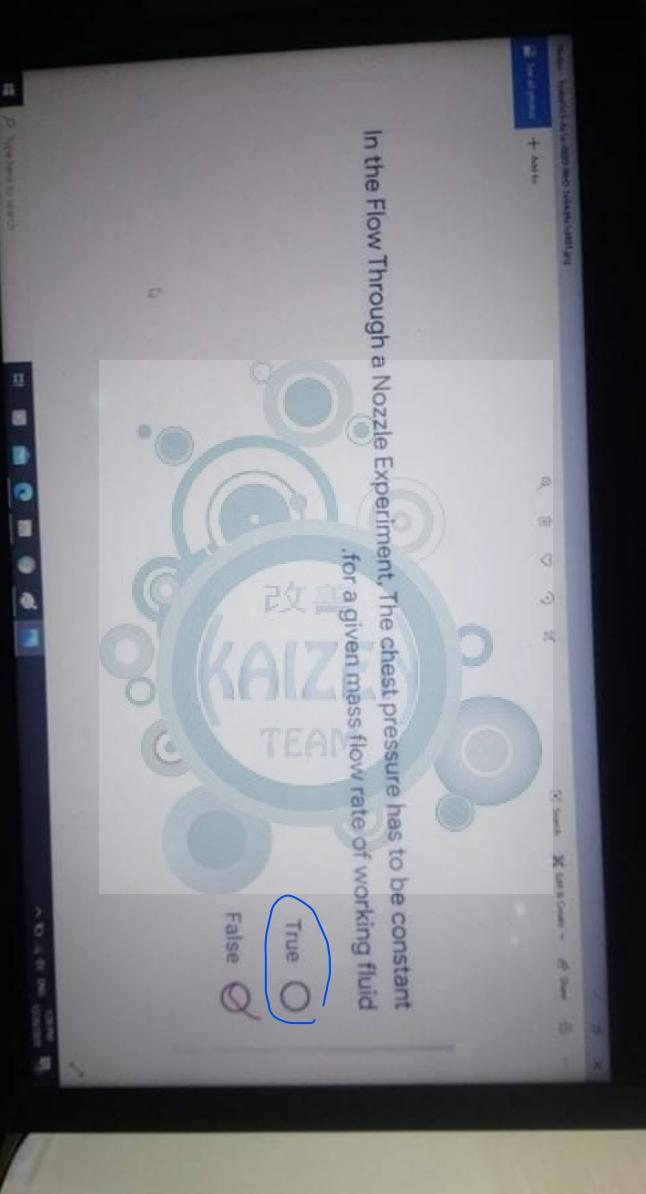
2.943



(dp) sat Ng

= (1335+273) K. (6.6057) m³

= (1357) M. (6.60



6 Imapet of water jet

P=1000 kg/m3; m= 0.4 kg; 5=0.04m; DNATELE=0.01m

→ hemosphisal cup

Fell = 2 (o.4) (5:0153)

= 4.01224 N

55 4.01 (6)

3 m = Pu Amozzice

1 a.H = (loop) U * I (0.01)2

= 5.093 m/s

W6 = 42 - 295 = 00 = (5.093- 2(9.81) (0.04)

1 4 ho = 5.0/53 m/s

6) In the losses experiment, if the following 0.25 kg/s, the density of water is μ = 1000 water is μ = 1 × 10 ⁻³ N. s/m ² , the minor it water is μ = 1 × 10 ⁻³ N. s/m ² .	kg/m², dismeter	of small pipe siz	e 14 mm, dy			
a. 0.744 b. 4.464 c. 0.595 d. 1.116 e. Nome of the above		1/2	ハ ⁻	8	P	
17) In pump characteristics experiment, for the pressure is 0 bur, the delivery pressure is 0 1000 kg/so ² , the spring lead to 17.64 N, the substantials efficiency of the pump is	e centrifugal pun 4 bar, the volume motor speed in 1	ip the following of flow rate is \$ \times 1 7 rev/s and the to	lata were rec 0 ⁻⁹ m ² /s, t reque arm ra	orded: 0 he water dies is 0.	be suction density is 15 m. The	
a. 0.83 b. 455 c. 0.69 d. 0.69 e. Marke of the shorts		Ø /†	Low-temper	sture her	t rate was	
TAME THE SUPPLY OF THE PARTY OF	Could the few to	by.	T.	mal coef	ficient of	
# 1.16 # 2.16 # Hyona of the Amer	改善	Q H -1				
# Thorned conductivity of the open to the special section of the spe	cornin the approve denies	ing thermiscoupt path length (x) as				1
20) In the liquid-vapor establish curve expendence of 3 line (1 line = 100 line). State = 100 line	iment, calculate		(-P auturnt)	on slop	e (i.e. $\left(\frac{dT}{dP}\right)_{i}$	int) #
e. None of the shore						

For the following multiple choice questions, choose the must correct answer. For computations, show the detailed solution for each question to guarantee the grade. (2 points each)

[1-2]: In center of pressure experiment, if the plane surface is partially immersed, the water level b=4.0 cm, and the width of truncersed surface b=7.5 cm. (Ywerer = 9810 N/m²). Answer Problems (1-2):

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0.59 N 0.05 N 0.05 N

13 The theoretical center of pressure measured from the surface ce of the water is:

3.33 cm 1.33 cm 2.67 cm 2.00 cm None of the above

3) Thermal conductivity of a material is

94 The resistance of a material to conduct heat through

(2) The ability of a solid material to store heat

P The ability of a material to conduct heat

d. A measure of jiquids ability to convent heat

e. All of the above

[4.5] In the losses experiment, if the following data were measured; mass flow rate of 0.2 kg/s, density of water is $\mu = 1000$ kg/m², distincted of small pipe size [4 mm, dynamic viscosity of water is $\mu = 1 \times 10^{-3} \text{N.s/m}^2$, roughness of the pipe surface is z = 0.0015 mm. Answer Problems (4-5): Ps lastik

a) The Reynold's number is

2100.12 18189.14 57142.86 36178.27

None of the above

5 The friction factor is:

0.018

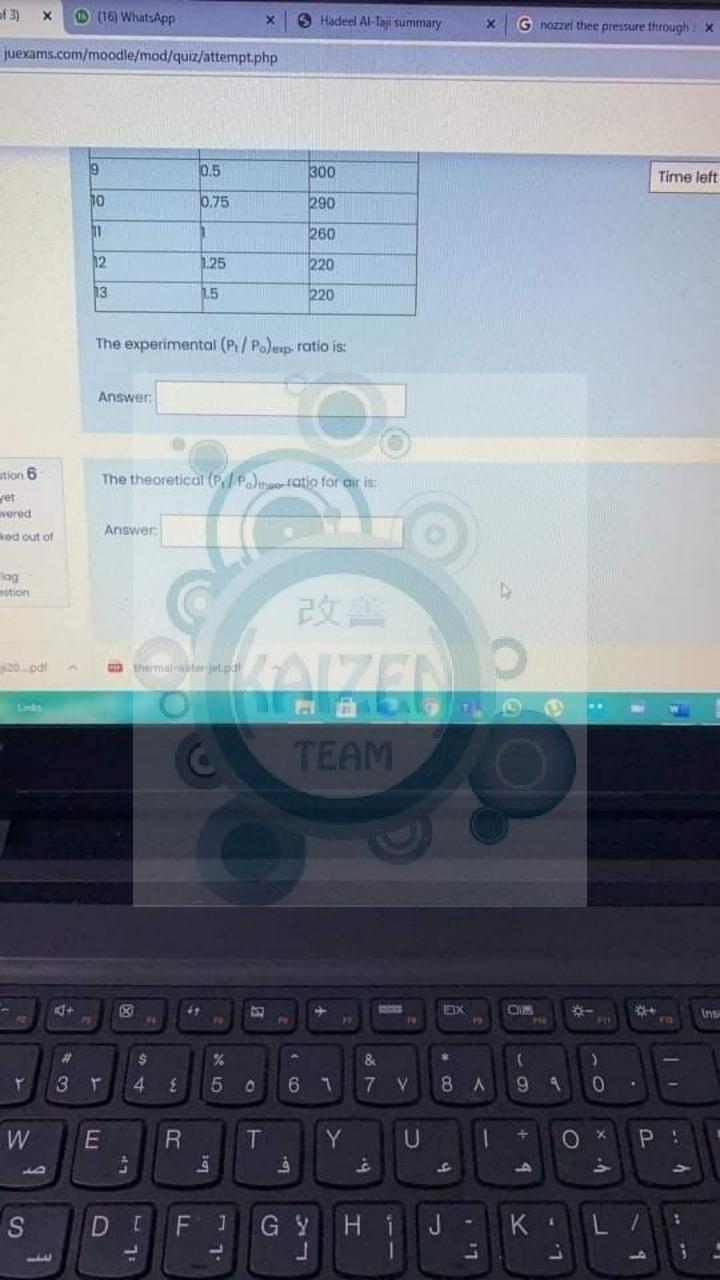
0.034

0.043

None of the above

0.027

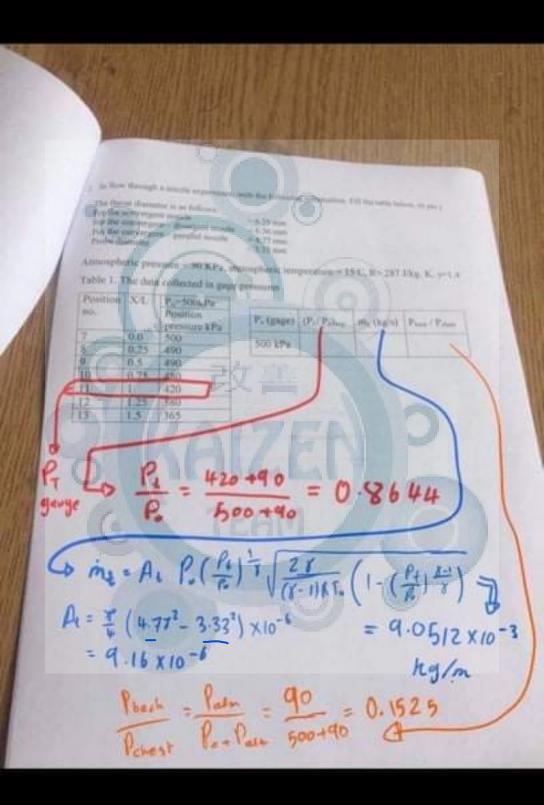




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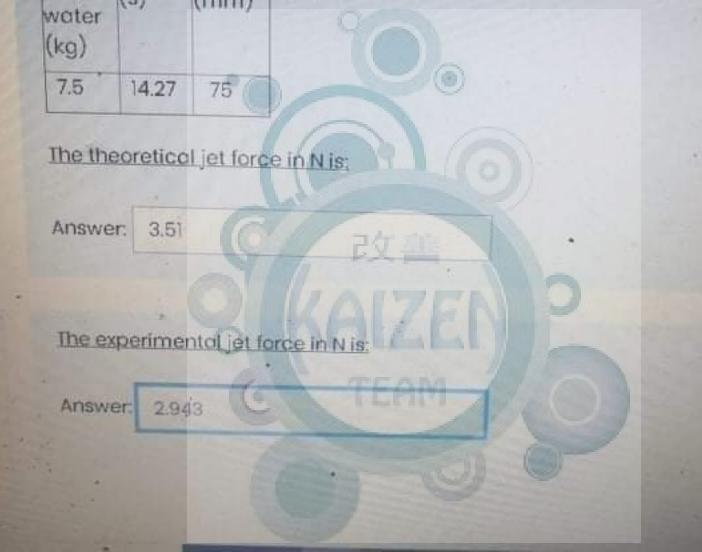








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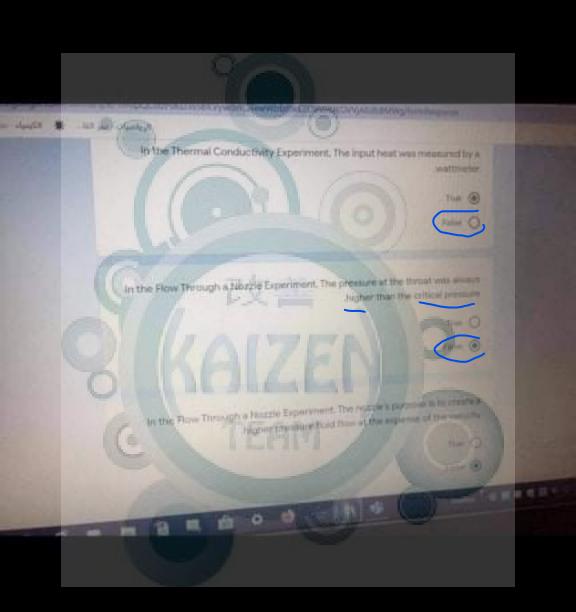
Question 4

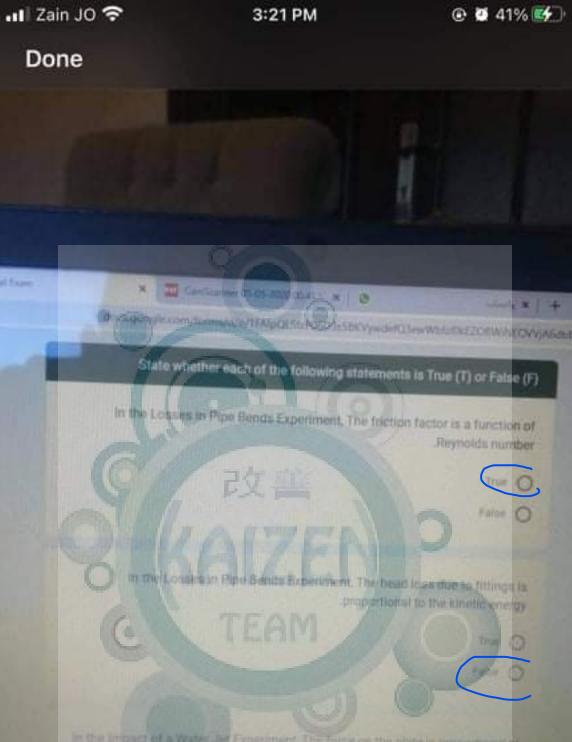
Marked out of

Not yet answered

Flag

Done





in the Impact of a Water Jief Experiment. The force on the plane is proportional to

Equations sheet:

$$Re = \frac{\rho V D}{\mu}, \text{ th} = \rho V A, K = ^{\circ}C + 273, P_{abs} = P_{gags} + P_{abss}, (dT/dP)_{sss} = v_{tg}T/h_{tg} \quad g = 9.81 \text{ m/s}^{\circ}$$

$$h_{L}=h_{f}+\sum h_{m},\,h_{m}=K\frac{p_{s}^{2}}{2d},\,h_{f}=f\frac{Lp_{s}^{2}}{D\frac{2}{d}}\text{ Lamiton: }f=\frac{ds}{ds}\text{ Turbulent: }\frac{1}{2p}=-2.0\log\left|\frac{ds}{ds}+\left(\frac{L}{2s}\right)^{1/2}\right|$$

$$\beta = \rho g h_c$$
, $F = \rho g h_c A$, $y_{cp} = y_c + \frac{1000}{y_{cd}}$, For water, $\rho = 1000$ kg/m²

$$F = m(u_0 - u_1\cos\beta)$$
, $u_0^2 = u^2 - 2gz$ $m = \rho uA$ Bernoulli equation: $\frac{f_0}{\rho g} + \frac{\rho^2}{2g} + z = constant$

$$Q = \text{rhc}(T_{out} - T_{in}), Q = -kA\frac{dT}{dx}$$

$$h_{p} = \frac{\Delta p}{\rho g} \times 10^{3}, \Delta p = p_{d} - p_{p}, P_{water} = \rho g \dot{Q} h_{p} \times 10^{-5}, P_{brake} = 2\pi \omega P R \times 10^{-5}, \eta_{o} = \frac{\rho_{water}}{\rho_{water}}, \eta_{r} = \frac{Q}{Q_{c}}, \eta_{r} = \frac{Q}{\rho_{water}}, \eta_{r} = \frac{Q}{Q_{c}}, \eta_{r} = \frac{Q}{\rho_{water}}, \eta_{r} = \frac{Q}{Q_{c}}, \eta_{r} = \frac{Q}{\rho_{water}}, \eta_{r} = \frac{Q}{Q_{c}}, \eta_{r} = \frac$$

$$Q_{\nu} = \frac{6.75}{12.5} \times 10^{-3} \omega_{planep}, \omega_{planep} = 2\omega_{m} \text{ and } m = \rho Q \qquad m_{m} = 0.00105 \sqrt{\frac{m_{m}}{r_{0}}}, Q_{H} - W_{\nu} - W_{\nu} = Q_{L}$$

$$COP_{HP} = \frac{Q_{H}}{Q_{H} - Q_{L}}, COP_{HP, rev} = \frac{1}{1 - r_{L} r_{H}}, COP_{h} = \frac{Q_{L}}{Q_{H} - Q_{L}}, COP_{h, rev} = \frac{1}{r_{H} r_{L} - 1}$$



Saturated Water and Steam Tables

00	7	6	5	4	cs.	2	-	Pressure
170.4	165.0	158.8	151.8	143.6	133.5	120.2	99.60	Temperature %C
0.2403	0.2728	0.3156	C	0.4625		0.8856		(Vig)
	2048	2067	2007	4-617	2104	2202	2258	(h _{fe}) kJ/kg

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b. Convergent-

1) The type of the nozzle used in the "flow through a nozzle" experiment is:

c. Convergent-

d, Divergent-

and hone of the

Divergent-Parallel