(.:Thermodynamics:)	
ONOZ: - Solution.	
m=lokg	
Pi= dobar	
V1 = 1.0m2	
Pr=loobar Pr=Pr=Constant	. ,
a) T-;	
P addlookPa = 2000KPa = 2MPa	
v. = 1.0m3 = 0.1m3kg.	
loka	
From steam table at P22MPa	
Viz 0.0012, Vz-0.096	
Sirre V. > V. at P2 2 MPa	
the steam is superheated	•
Toc 1 (m3/Kg)	
212-4	
7	
275 0.1638	
= 0.2B3BNFa.m2 1000 KF4 / 1Km	
ra IMPa IKDa-mi	
- Br 283.8KJ	Marine Berland, and a retransport policy of the Charlest Annual Annual Annual Annual Annual Annual Annual Annua
Kg	
W- DAR. RKTMa	

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9-3
Dûz gtw
At state 1, PizaMPa, T- 216213.60c
1 9.0 als.6 C
ULKJ/Kg) T(OC)
2600 212.4
U, 213.6
2628.3
U1 = 2602.97 KJ/Kg
At state as P-lompas v=0.0342 m3/Kg
At state 2. P-10MPa, v-0.B342 m3/Kg v. (KJ/Kg) . v. (m3/Kg) 3045.8 0.0328
3045.8
0.0342
3144.5
U2=3095.15KJ/Kg
0.0342
W= Pedv Pdv
0.1
Pi's = PIVI => P = PIVI => VI'S
11.5
6= 9W60 10/m2/12 1/2
M NW

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P2 0.0632 MPa
11.5
W= - 1 0.0631 di
0.1
1150.031
-0.632 -0.5 V
= -0.0632 <u> </u>
0.5 0.0342 0.10.5
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. (3095.15-2602.97) KJ/Kg
002492.18KJ/Kg
00 2 9+W
9-00-0
912 (492 - 283.8) KJ/Kg
9 = 8.8.38KJ/Kg.
_
d=?
7,1°C) \(\int_0\) \(\langle \langle \l
0.0342
0.6330

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Adigbtic Process:
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the of thermodynamic process which occur without to
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Isolated System:
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neigh or matters with its surroundings.
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Data Given	
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P.7 bar	
p.7 bar h= 2600 Kj/Kg	
N=?	
Vi.	
V = ?	
h c h fa	
1) h. hf + x.hfg	
697.11 XL COU	
2600 = 697.1 + x(2064.9)	
1902.9 = X	
1902.9 = X 2064 9 [X-0.921]	So
119	02515 m3/Kg 022515 m3/Kg
V F : CONTRACTOR	1. 310 a KILKET
= 0.00/108+ 10.92/1/0.271892)	0:44
= 0.00/100 + 0.2504/	
= 0.00100 + 0.00	
= 0.2515 m3/Kg 31 is of +xufg - 69k3+10.921)(2571.1-963.3)	
31 0= 0+ +xv+9	
The second secon	
= 698.3+ 1726.6908	
2420KJ/Kg	