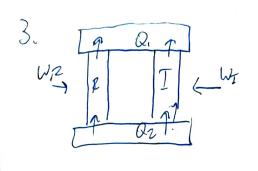
TH= 362.74°C

T,= 1050 Le

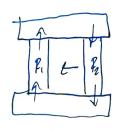
T2=800 U

Tz: 330U



WZ>WT

Heart goes from Iz to Ti, reverse & Violate Grance Statement Since you Cannot get heat from 1 received



WZ >W,

Offoses Plank Statement

=7 (of, = CoPz

So COP, E Colz COP2 7, COP,

U. V=10 m3, Mmo1 = 29, W=1, U P.7.8 60

T, = 12° -7 265.15 ll Performance = 3.2

T2 = 26°C 7 299.16W R=8314/29

CP = 1.4

P= ,4 Cv

QH=74.39 (10031)(26-12) =1044.69

P.V. = mRTI

LOP= QH QH=3.7(2.8)

101325 (60) = M (266.6) (265.15)

t= QH= 1014,69=116,59

M= 74.39

mz. oy kg M mo) - 44 4=1.24 TH- 600C: 107315U 76: 273,15 W PMAX = 9 MPa = 9000m Pa V max = , 75 m 3 TH - VH = TCVC 1073.15 · VH = 273.15 (.75) n=m/m= .04-9.89E-4 UH = 80251 m3 PUINAT P= 9.AE-4 (834) (1073.15) P= 3231.5 WAN Q= PV In ( Pm) p) = 3 C, 35 (.00251) In ( 9000/30.315) Q=.457  $n = 1 - \frac{1}{1} \frac{1}{1} = .705 = \frac{w}{0} = \frac{w}{1000} = .341$ Qc=Q-W= . U57 - . 341= 1. 1769)

6. h. - hfet X, (hor - hpz) h. - 31,975 t. 2337 (241.51 - 31.975) h. - 80,94 b) ho=236.27 () Q = (arnot (h--h) -.37(236.27-84.94)=57.Kg QH = .37(263.72 64.88)=66.1 d)P- QH QL -8.6617 lew