Ch En Hw3

1) 7, = 300K, P, = 101 KPa, V = 0.5 m3 W= SFdx = SPAV P= 2RT : W=- 52PT av =- RT LV =- RT (L/4-L/V) 12= nRT 1 = nRT 7 12 8= 11 R : N=6/1/1/6/ >N TONABLORDS N/ 1/2 - 6/ # W-~ BI 7 /6 M=28.0134201 m=1257 - Soal .. W=22.32 mal . 8.314 m3 Pa . 300/ - 1/101000 /2 m= 625,3 q 2121569.7 JE 122 KJ from the gos DU-a-w, DU-0 (isothermal :. Q: +122 7-122 KJ removed from gas 2. W= SPAV - W= PSAV = P[V] = = P[b-a] = W P,=750 KPab=0.02 m3 Pang= 3550= 591.67 KPa P2 = 500 Arsost. 0.02-0.01 3 .. W=Pary [0.02-0.01]=5.9 KJ P3 = 400 Ry-Nuo P5=700 P6 2800

Q



