Vernefredi - Skikdani 7 Andr' Kent 1 9 = T, Pz = 302,5 k . 671 k/s 0-3 = 1705,7 K 500 $Q_{1-2} = C_V(T_2-T_1) = c_1 718 k_5 k \cdot (1705,7 k - 302,5 k)$ = 1007, 5 kg 10 Pz Vz = Pz Vz = Pz Vz = Pz Vz = 671 kla = 167,75 kls W = RT2. In (4V/2) = C1267 Lg x 17057 K. In (4) 14 0 = 678,69 = 02-3 (3-C W = R(T, -T3) = C, 287 E5K 0 (302,5 K-1705, 7K) = - 4cz, 7 kg 4 -Back work (2Hc = W1-3 = 402, 7 kg = 0,59 A C = 0,164

Q4 -= 7,54, P, = 94,1 L/c, T, =35,76 = 308,7 K First we find T2: T, V, = T2V2 = 692,6 K Thomal efficiency is: 7+2 = 1- T2 = 1- 308,7 K = 0,554 Heat added: Cin = n+h = 120 kW = 216,5 kW stace we have when = W - Wearp multi-style expansion with releating: Would T multi-stage compression with releasing: Ween know that Wast will increase We have (= Weens and was the same legic as in s) ne know that I will decrease Intercecting will decress Tang of the heat added and relectors will increase the Tax that leat is rejected at. Thus thermal efficiency will decrease d) Like above, rehearing will make Tong for the heat rejected Lisher, and thus hear rejection increases

