(a) PUZMRT 6000. 0.0035 = m. 0.2870. (700+273,65) m = 0,0252 kg (b) Pr = (v) k (c) 13640700°C Pr (0,0038) 1.364 6000 = (0,0038) 1.364 P2>111.544 6Pa 000 (000) (sentour 7 (=PV ", Oza. $W_{b} = \frac{P_{2}U_{2} - P_{1}U_{1}}{1 - 0.0657} = \frac{6000(0.0035) - (11544) (0.0657)}{1 - 1.364}$ $W_{b} = -37.77 \text{ kJ}$ iscreepte, iscretion's a actual 0.75. -37.77 = aceul 0-> actial= 28.3275 hJ 28.3275 = m (u to Extlire) = Court + Word + on (u + ME+WE) out - 28.3275 = m (u ot - uin)
-28.3275 = m (cy BT) -28.3275 = 0.0752 (0.788) LT QT 2 - 478.04 T2 = 700+273.15 - 478.04 T2-495,11 K 1. Tukey accorded is due to this sycam to We coulde, as some parts of long landon

such as he every converse to were