Barbara Perez .Physical Chemistry troblem set 4 than HA - bing HAZ 3 mith 6 M Analytical Problems:) + Lings post-1. For any reversible adiabatic process greversible =0 so... forcyclic (DS = \$ (agroversible /T)=0 9 reversible = - Wreversible = nRT In Vi and

DS = Sex 9 reversible = T x 9 reversible = nR In Vi

20 DU =0 } since H is cyclic

AM =0

AS =0

Stake Richan!

Due: 03-24-20

min step a a-b heat is atosorbed 6 That Vot = Trad Vot 1 and Trad Vat = That Vat

Wayce = -nr(Tn+-Tora) In va 20

the total wark is (-) Vb

995 - was = nrt nor In va

E = |wayce| = That - Tord = | Told 21

995 That

Elmenorsible < Erevisible (1) 3. a ds = (25) dT + (25) dP du = tas - Pav = OH - Pav - Vap ds = tan- +dp

(D) aH = (2H) at + (2H) ap - (pat + (2H) - dp ds = fat + + [(3+) + V] dp = (35) p at (35) dl