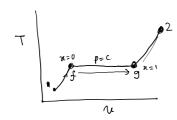




16m 25'c

1000 100°C





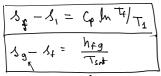
I lig or sour

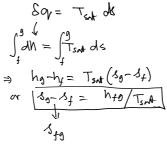
p,, T, 1

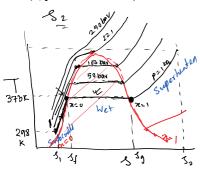
1 - f - Subcooled light heating

f-g → phase chang from x=0 to x=1

9-2 -> heating of superheated rapor I similar to heating an incompressible

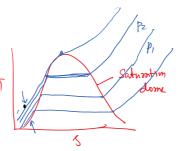






Open SH Steam Table p=1 bar page T=308 C

5 by & Water at 20 bar & 20°C & you heat it to 500°Cat 20 box, find the heat needed,

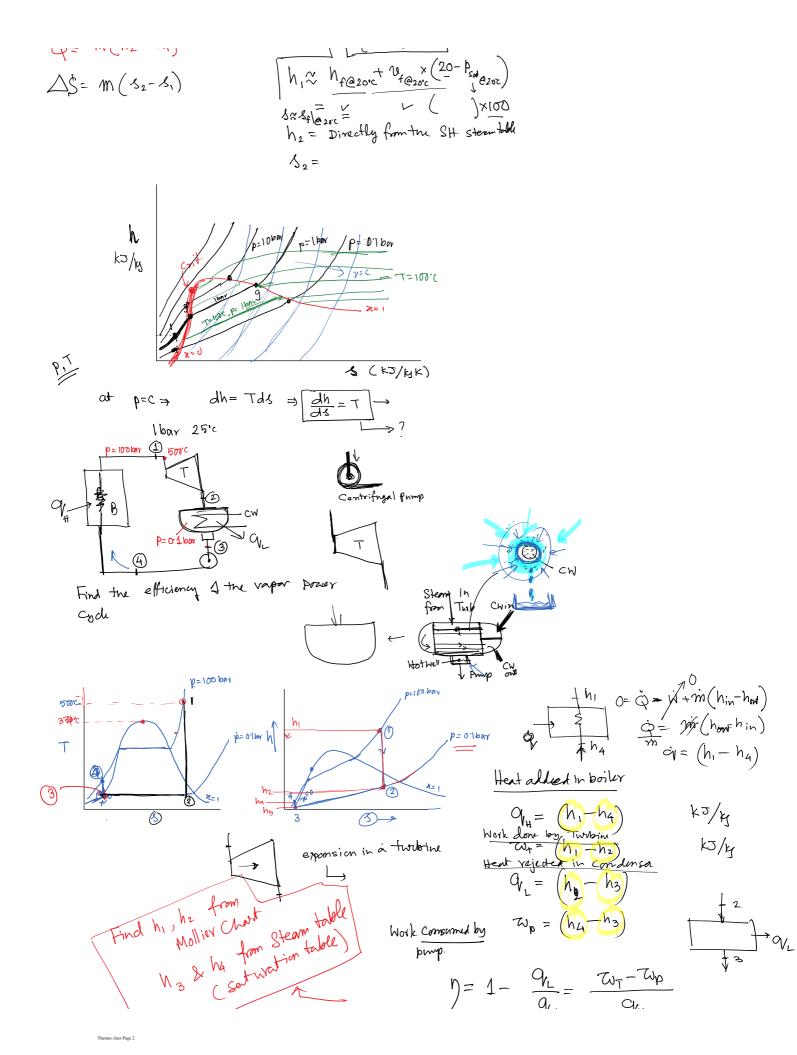


work done & DS.

V, = Vf (20°C × 1002 m)/4  $U_{2} = 0.17568 \text{ m}/\text{fg}$   $W = \text{m} \times \text{p} \times (02 - 01) =$ Q= M(h2-h1)

 $M = M \int pdV = M p \times (v_2 - v_1)$ Superhed Steen Table page of 20 bar

△\$= M (32-31)



$$\int_{NH} = 1 - \frac{Q_L}{Q_H} = \frac{T_{V_T} - T_{V_P}}{Q_{V_H}}$$

$$W_{NH} = (W_T - T_{V_P})$$

Thermo class Page 3