(a)
$$M_p = 14 = 7$$
 $M = 1 - \left(\frac{1}{\Gamma_p}\right) \frac{u-1}{u} = 7.53$

a)
$$\eta = \frac{(3/.7)^{\frac{1}{1.4}}}{(3/.7)^{\frac{1}{1.4}}} = 86.2\%$$

(1)
$$\eta = \frac{CP}{CP} \frac{(T_2 S_1)}{(T_2 T_1)} = 7 \frac{T_2 S}{T_1} = \frac{P_2 U_1}{P_1}$$

$$= 7 \frac{T_2 S}{T_1} = 7.000$$

3. P. = 25 MPa P2 = 3 MPa (Sperhented @ 500°C) m= 22 exit (Saturated Valor) hg = 2803. 265 91 L = 3165.92 hf = 1000.371 8, = 5.9642 5,9=6.165 St: 2.6456 S, = S++X(\$0-S+)=) 938 =X =7 hz = 2691.49 = 5 P= m(h,-hz) = 7 P=10437 Lew =7 n = 4,-hg = 7 7.764 4. 0+10 CYCL 1=9, KILV Morro = 1 - 1 m-1 -7 = . 565 notto = 31 .585=1-1-1 (ru-7) = 5 4= 3 Vz = 3 Vz =) 1 = .415 => [n=17.5]

5.9)
$$T_{1} = 296 \text{ W}$$
 $P_{1} = 1 \text{ bar}$
 $r_{1} = \frac{V_{1}}{V_{3}} = 13$
 $f_{2}/T_{1} = \frac{(V_{1}/V_{2})^{L-1}}{V_{2}} - 7$
 $f_{2}/T_{1} = \frac{V_{1}}{V_{1}/V_{2}} = 7$
 $f_{2}/T_{1} = \frac{(V_{1}/V_{2})^{L-1}}{V_{2}} - 7$
 $f_{2}/T_{1} = \frac{V_{1}}{V_{2}} = 9$
 $f_{2}/T_{2} = \frac{V_{2}}{V_{3}} = 9$
 $f_{3}/V_{3} = 9$
 $f_{3}/V_{4} = 7$
 $f_{4}/V_{1} = 7$
 $f_{4}/V_{1} = 7$
 $f_{4}/V_{1} = 7$
 $f_{4}/V_{2} = 7$
 $f_{4}/V_{3}/V_{4} = 7$
 $f_{4}/V_{3}/V_{4} = 7$
 $f_{4}/V_{4}/V_{3}/V_{4} = 7$
 $f_{4}/V_{4}/V_{3}/V_{4} = 7$
 $f_{4}/V_$

