

below pur Kelma 1(K)-213,15 (a) 60°F = 20°C = 293.15 K (b)-40°F = -40°C = 233,15K 10)50°F= 260°C = 533,19K (d) 0°F = -17,18°C = 256K (e) 212°f = 100°C = 373,15K (1)-459,67°f=-2+3,15°C=OK

16an = 105 Pa m=0,205 Kg Pressão (antante (± nobárico) p= 5bar = 5.105 Pa Por ser sum praceno motrávico, a indice politrápico é 0. (m=0) $P_{0} = \frac{M}{V_{0}} \qquad P_{0} = 5 kg/m^{3}$ $m = 0,250 kg \qquad V_{0} = 0,05 m^{3}$ $V_{0} = 7$ $W = \int_{V_0}^{V_F} p \, dV = \int_{0.05}^{V_F} 10^5 \, dV$ W=-15Ki $-15.10^{3} = 5.10^{5} / 2/V - 5.10^{5} [V_{e} - 0.05]$ -13.103 = 5 x 105 V+ - 2,5 x 10-6 V, = -15.103 + 2,5.10-6

tilibra

3 - INTONO 1

p. = 0,2 × 106 Pa V1=2,75 m3

2 stagle 2

P2 = 2 × 106 Pa

Vz = ?

M=1,35 (indice politrapico)

 $p_1V_1^{M} = p_2V_2^{M} : V_2^{M} = p_1V_1^{M}$ p_2

 $V_2 = \left(\begin{array}{c} p_1 V_1^{m} \\ p_2 \end{array}\right)^{\frac{1}{m}} = 0.5 m^3$

W = ? $pV^{M} = CTE : p = CTE$ V^{M}

 $W = CTE \int_{V}^{\sqrt{2}} \frac{1}{V^{m}} = CTE \int_{V}^{\sqrt{2}} \frac{1}{V^{m}} = CTE \left[\frac{V^{-m+1}}{V^{m}} \right]_{V}^{\sqrt{2}}$

= CTE VI-M TV2











