

Universidad Autónoma de Baja California

TERMODINÁMICA

TAREA #4

Ciclo Diesel

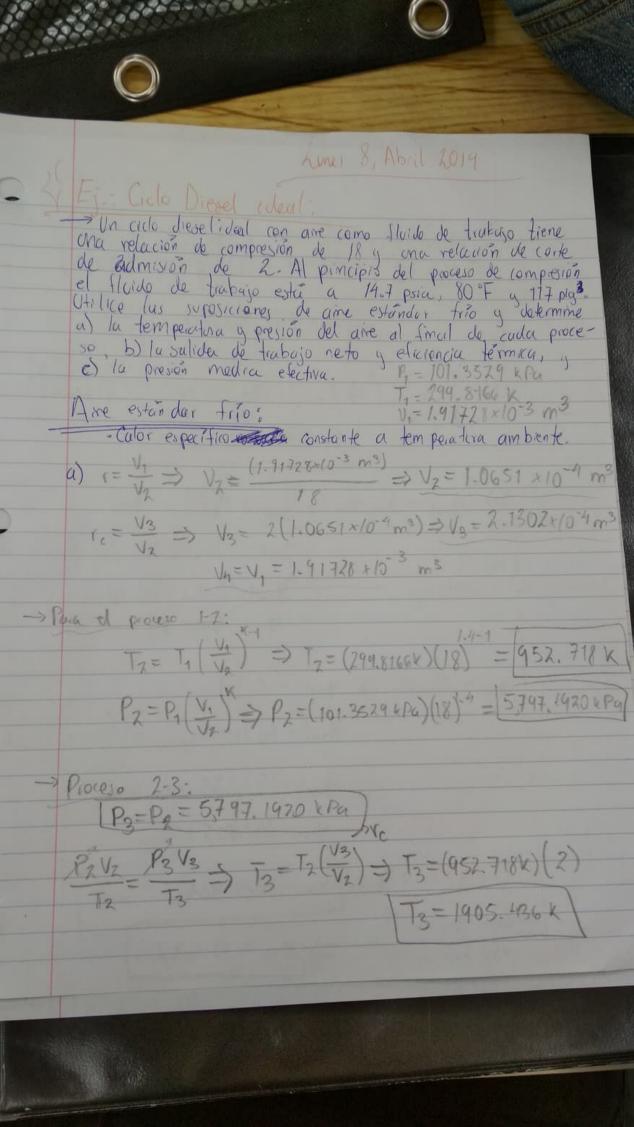
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-> Provero 3-4: $T_4 = T_3 \left(\frac{V_3}{V_4}\right)^{k-1} = (1905.436 \text{ K}) \left(\frac{7.1307 \times 10^{-4} \text{ m}^2}{1.91778 \times 10^{-3} \text{ m}^2}\right)$ Ty=791.2036 K P4= P3 (V2) => P4= (5747.142 WP4) (7.9172840-3m2) Py= 267.4679 KPa b) gent = h3-h2) gent = Cp(T 3-T2) gent = (0,240 Bla/bm- 2)(3432-17168 n= 1.035 656 40 gent = 411.94 Blu/Hom 0 45 354 24 44 gent = 957.94 2 10 x 18/401 9 sul = U4-U7 > 9 sul = (v(T4-Ty) 9 sol = (0.171 Blaylom. R) (1425-540 R) 9=11-151.335 Btu/10m 9501 = 352,005, Kro/kg What = gent - 954 => Wret = 605.435 Kr8/Kg 11- 457.94 6 49/mg => 1/tex = 0.6325

PME= 755-8585 WPG - => m=2.2588 x10-3 kg