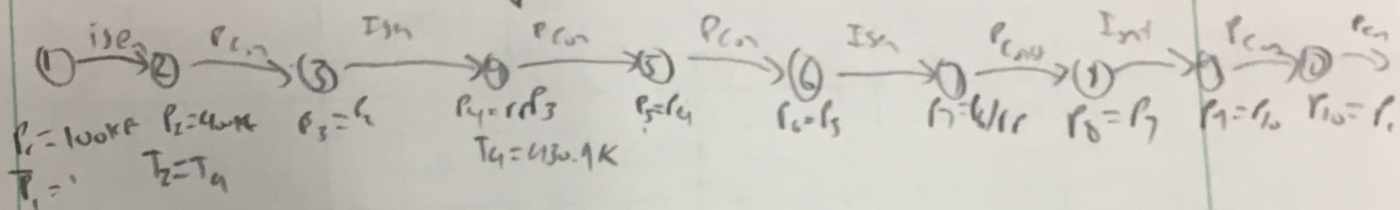
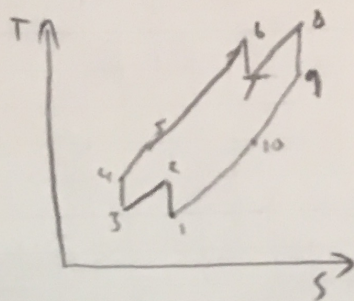
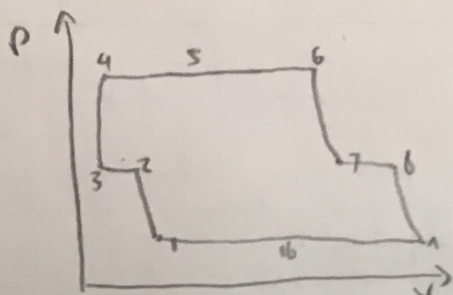


9.123)

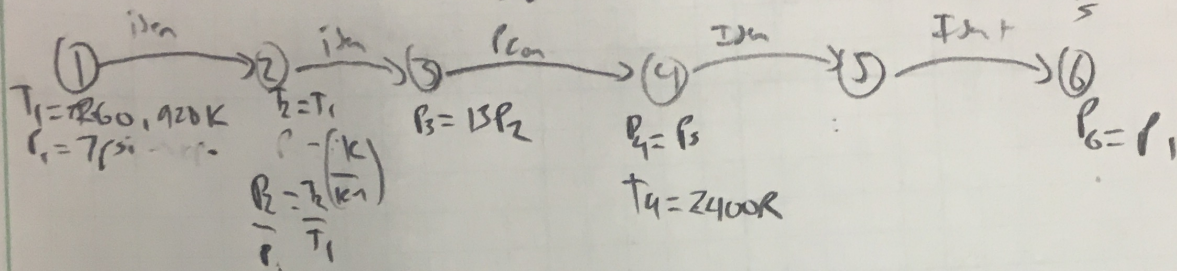
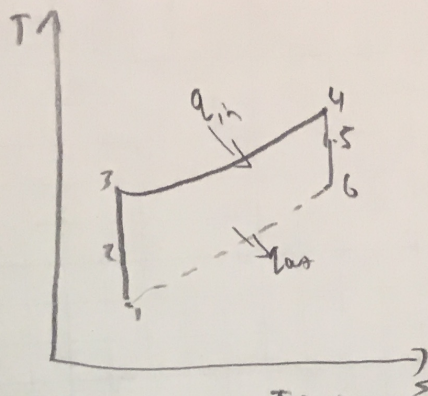
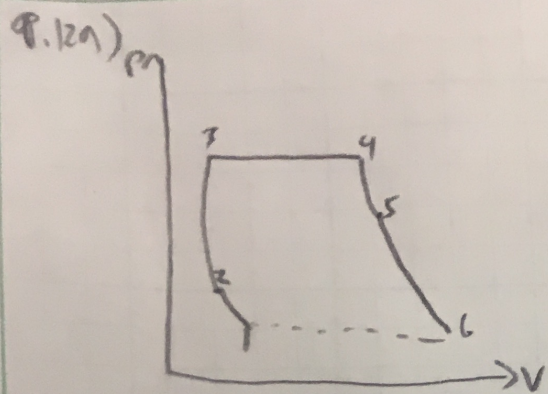


$$T_2 = T_1$$

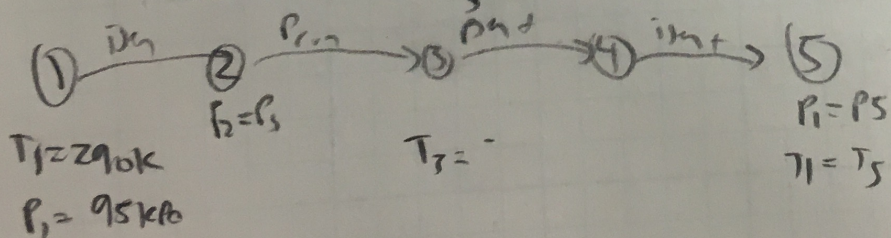
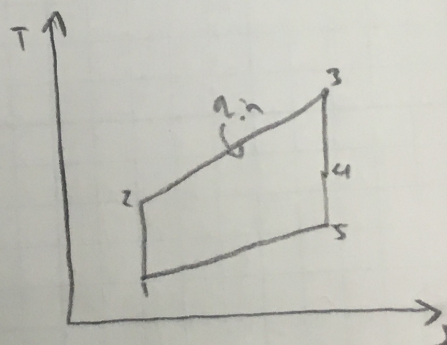
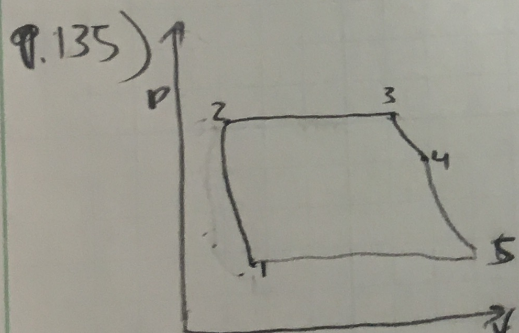
$$= T_1 r_p^{(\gamma-1)/\gamma}$$

$$= (290.15)(4)^{.4}$$

$$T_2 = 4130.1 \text{ K}$$



- a) $P_{\text{turbine}} = ?$
 b) $v_{\text{behind gases}} = ?$
 c) $\eta_p = ?$



- $F_{\text{brake}} = ?$
 $F = \dot{m}_a (v_{\text{exl}} - v_{\text{inl}})$