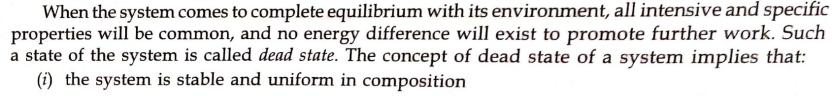
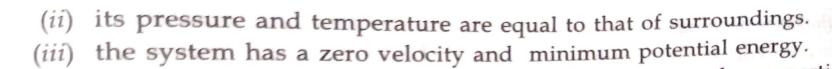
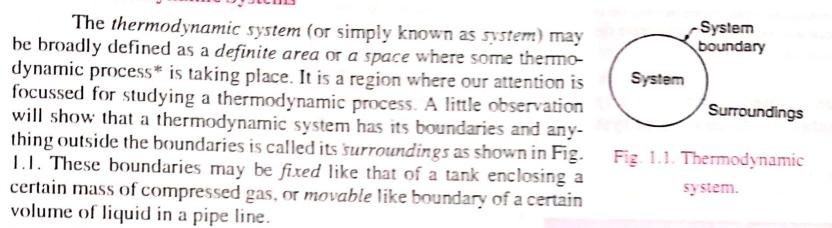
Thermodynamics solution(KME301)

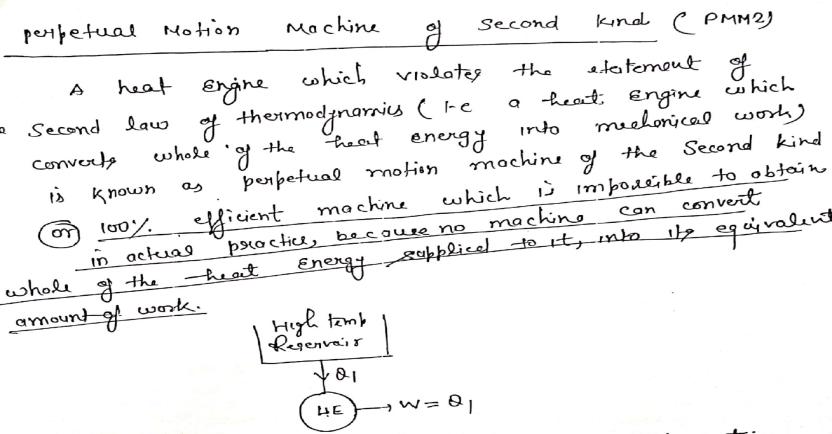
Q1(a)

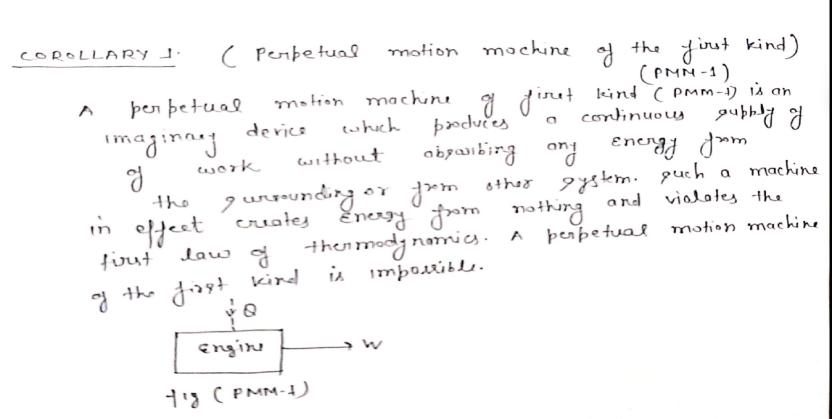


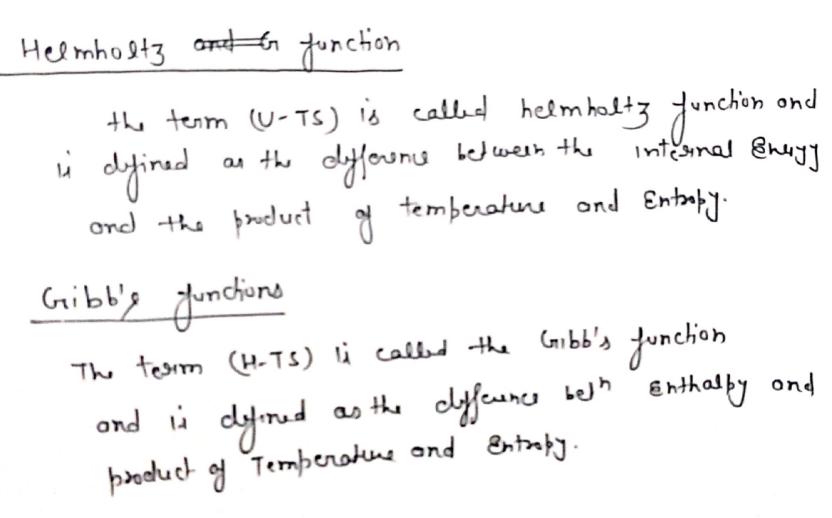


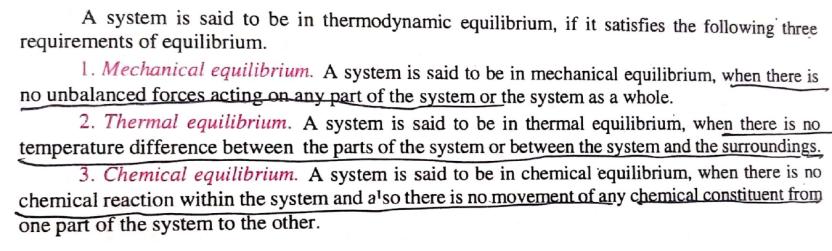
(b) 

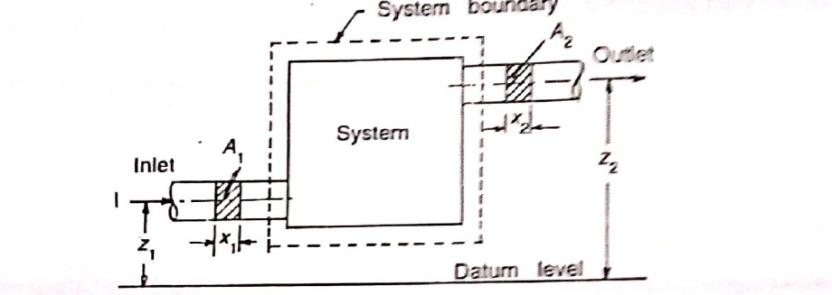
(c)

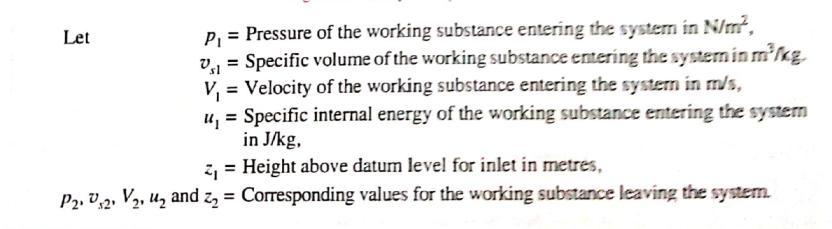


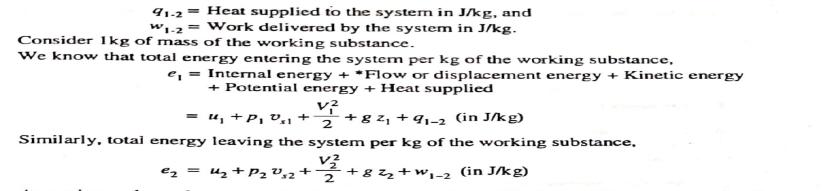


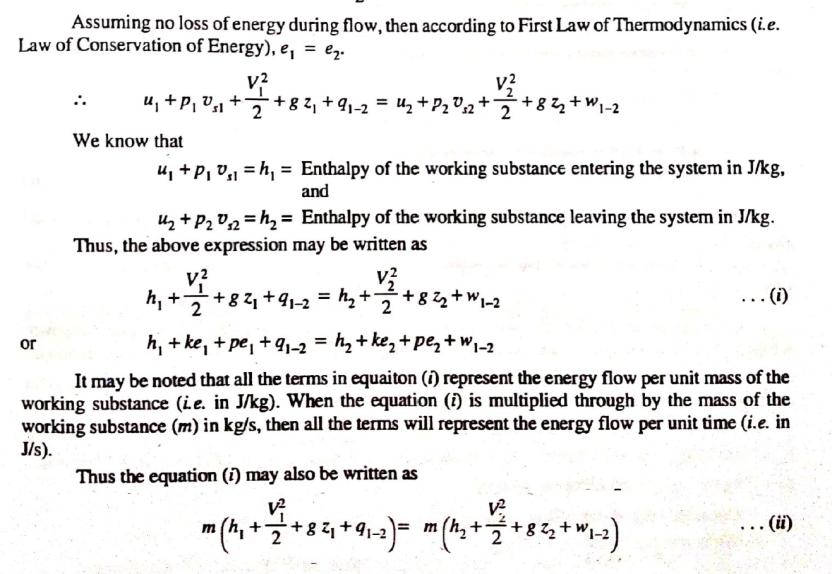
(d) 

(e) 

Q2(a) 

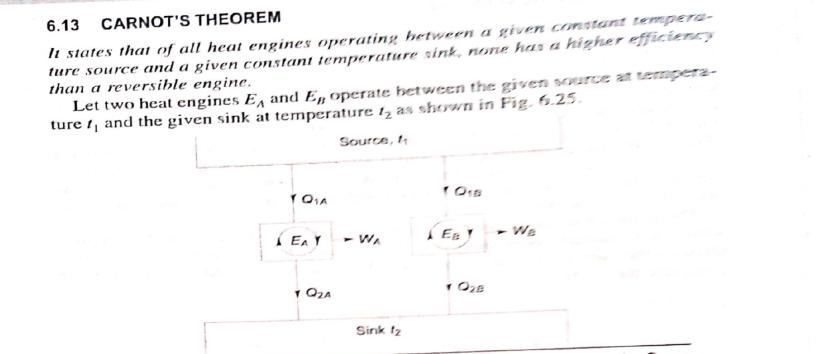


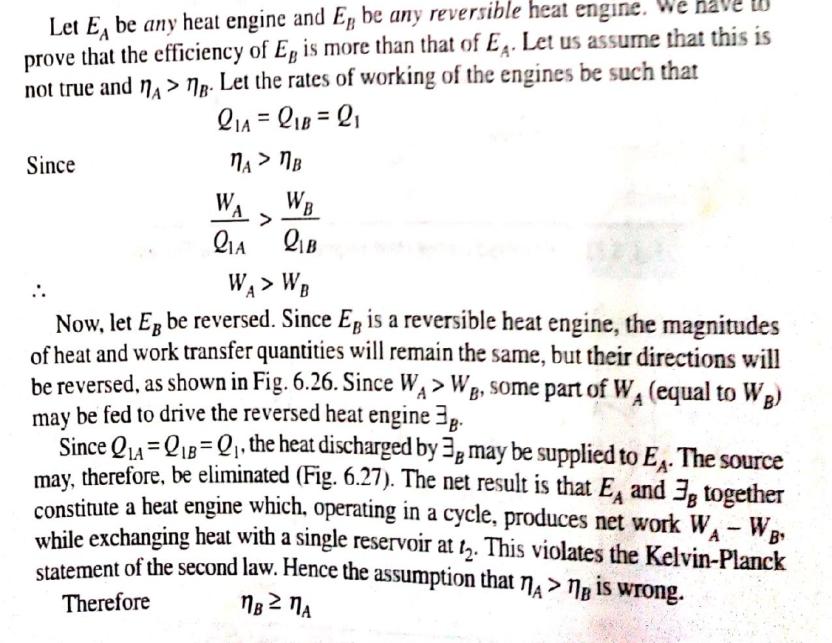




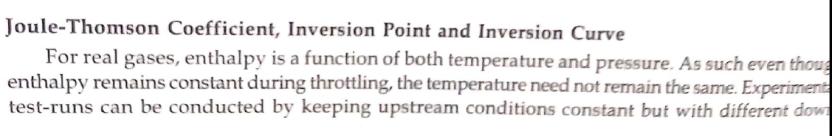
This is known as steady flow energy equation

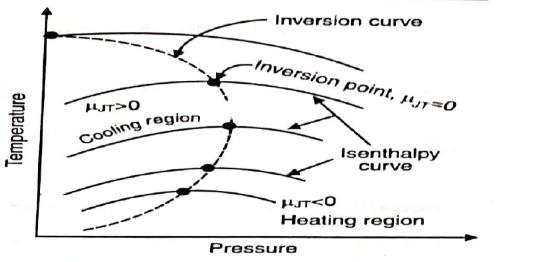
Q2(b)

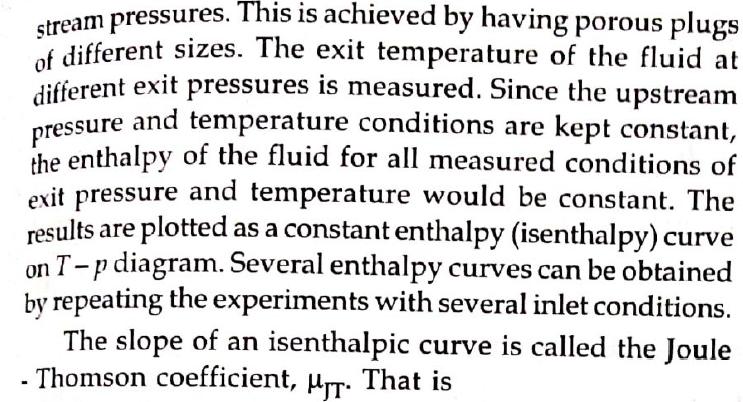


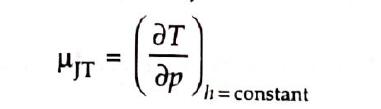


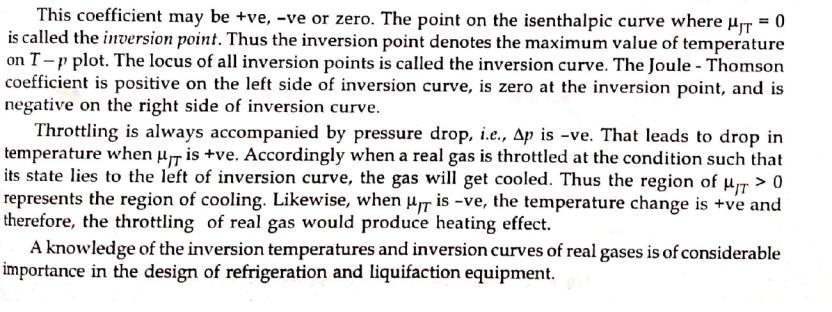
Q2(c)



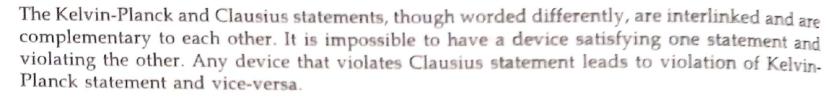




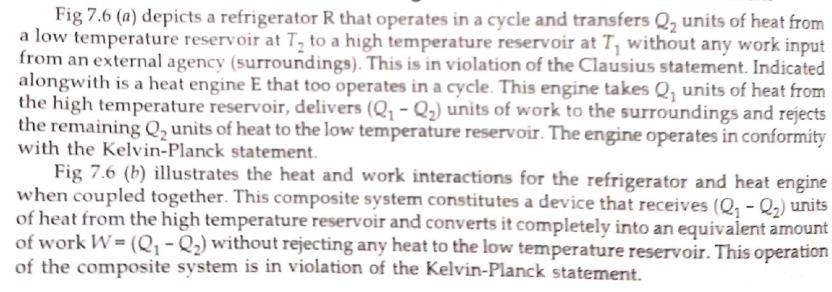


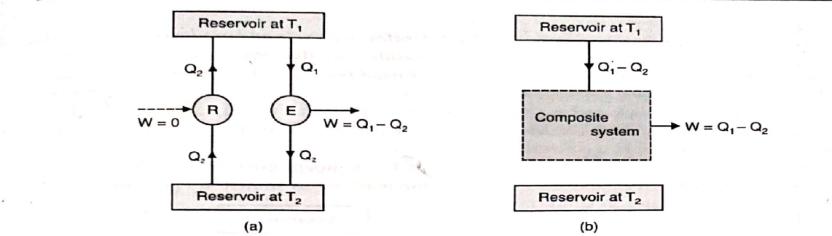


Q2(d)



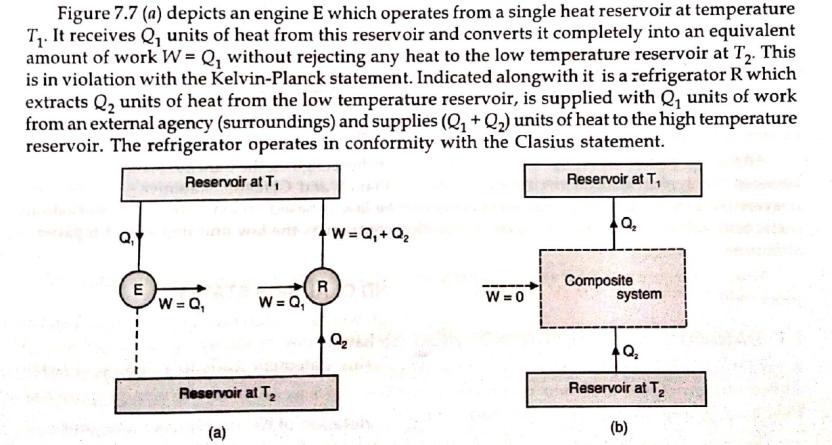


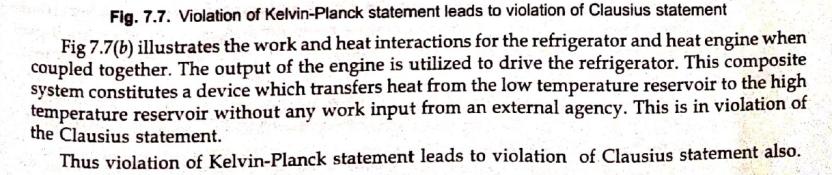




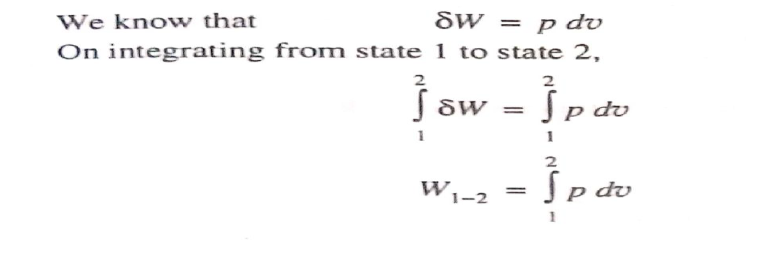


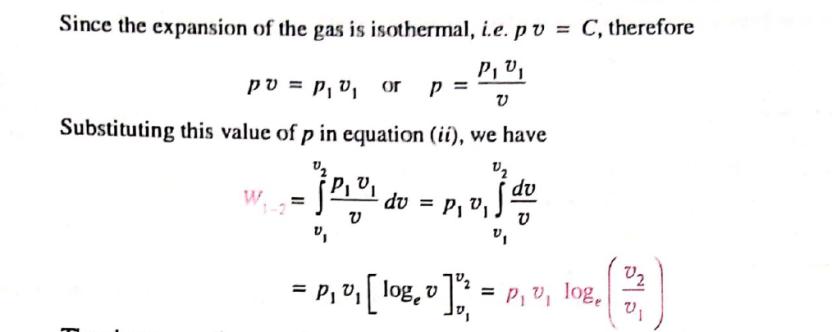


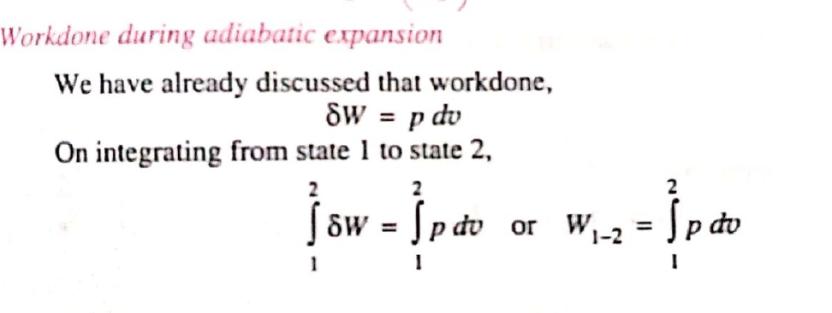


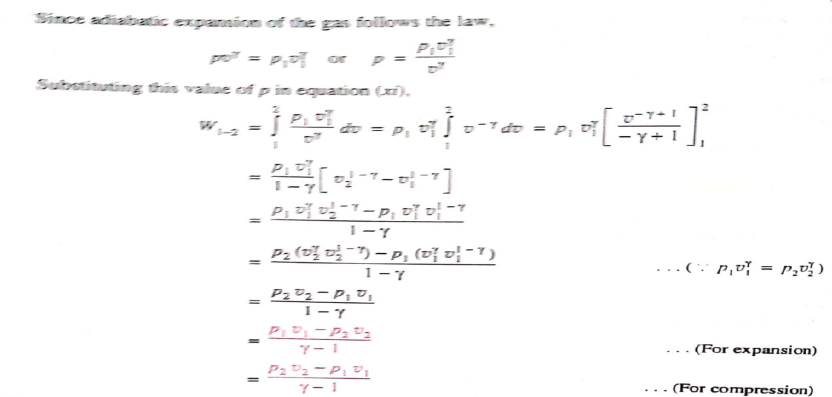


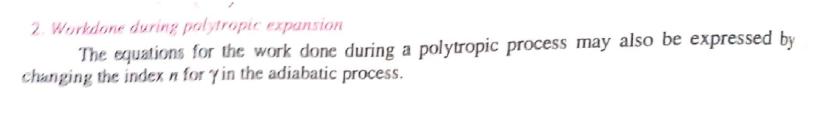
Q3(a)work done in isothermal

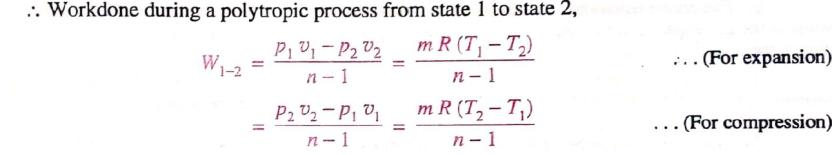




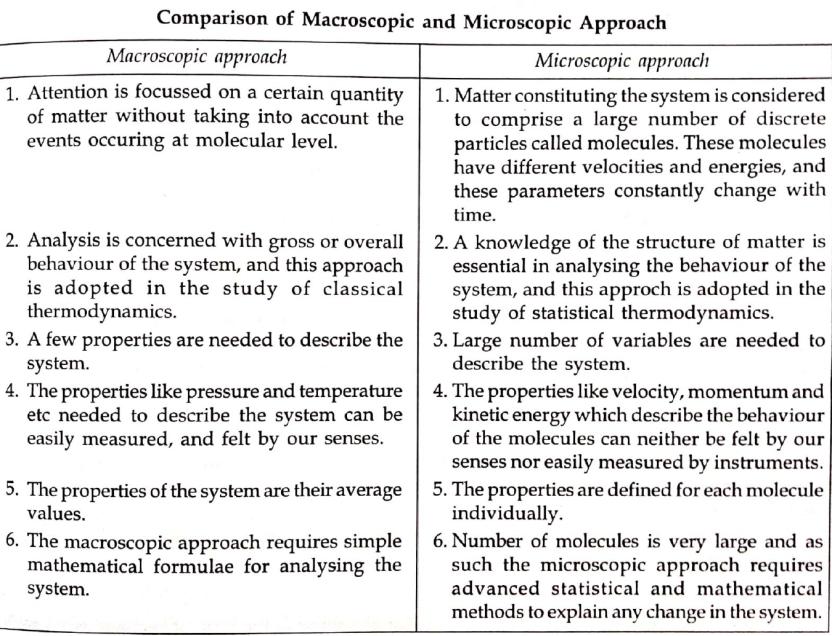


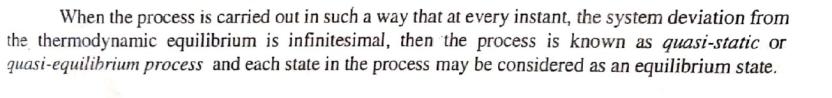


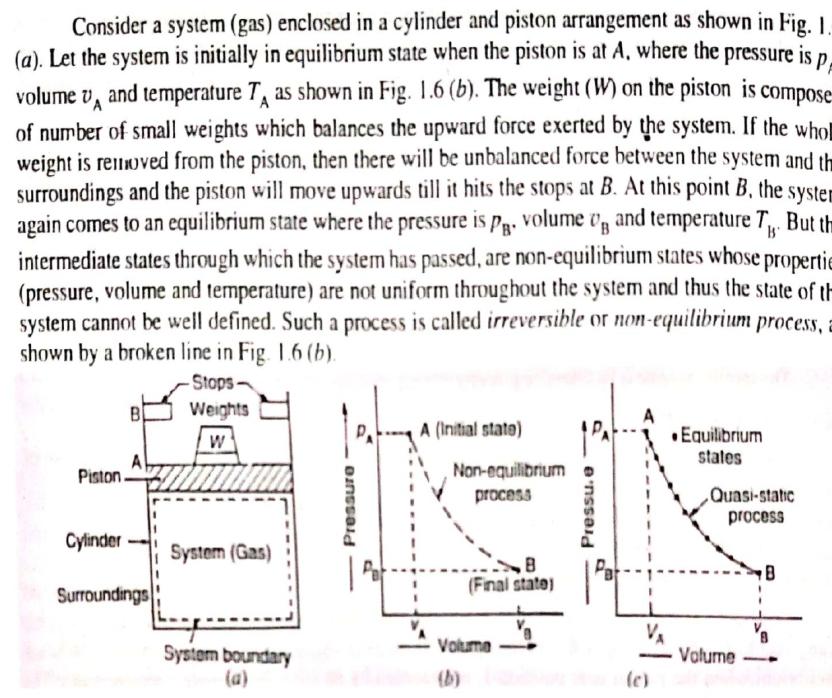


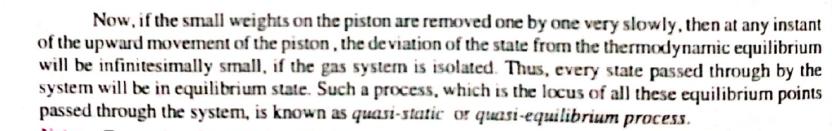


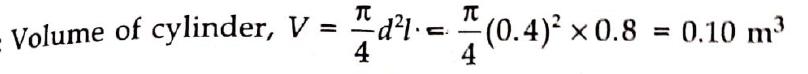
Q3(b)(i)

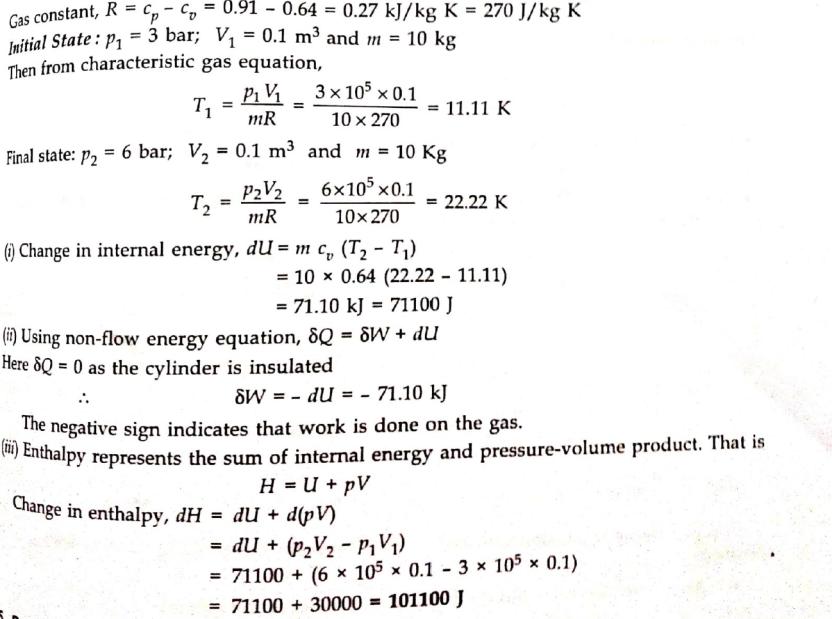


Q3(b)ii-

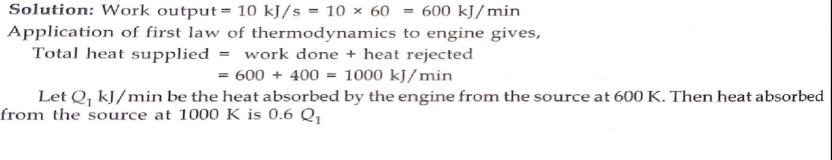


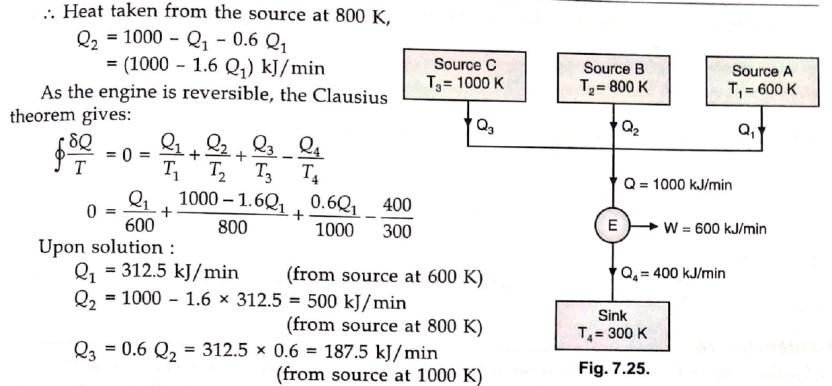


Q4(a) 

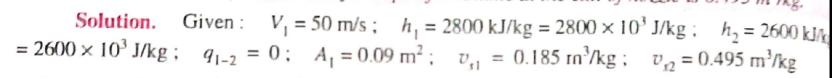


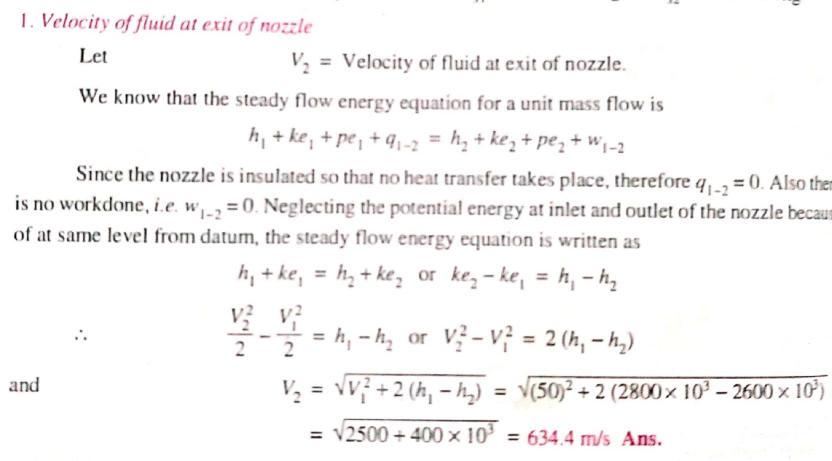
Q4(b)

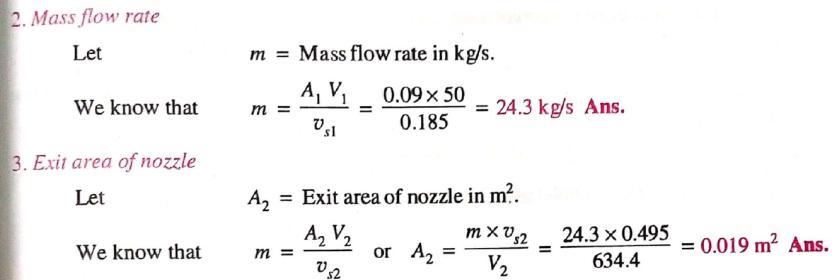




Q5(a)







Q5(b)

