EN 203	
SOLUTIONS TO NUMERICAL	PROBLEMS
1N QUIZ-2	
Q-1) Rigid Vessel> Constant volume Ar	6685.
$\frac{P_1}{T_1} = \frac{P_2}{T_2} \text{or} T_1 = \frac{P_2}{P_1} \times T_2$	
Find Temperatine, T = Pe XT,	
$C_{V} = \frac{R}{Y-1} = \frac{18.314}{241.4-1} = 0.7167$	15 & J/kg.k.
Change in Intend Energy; DU = mc AT	

From First law
$$W_s = Q - \Delta U$$

In the above formulae play- in the input values from your pour a Question to get the Correct answers.

Values of the answers, I have given marks, eventhough Modele has marked marked them was worg.

Q.2) The Steady State, Stady flow Energy Equation for the System is

in (h w. = 4 w) + in (hoz- ho,1) = 0 - (T)

Change in Enthalogy 1.62(t,-t,) + (0.5×10⁴(t,2-t!)

Change In Ethholpy of water:

(h_-h,) water = 4.129(t_, -t_u,1):

from Eq. O.

Moss flows in when - moil (hogz -hoil,1)

rate of water,

(hosts - hoil,1)

In the above formulae plug-in the input value of som your question to get the correct answers.

Volus q the asswers, I have given makes, even though Hoodkhes maked them wrong.