

(a)

[2]

(i)

initial temperature = K [1]

(ii)

Determine the new volume of the gas after heat is

volume of the gas = m³ [2]

gas.

(iii)

Determine the change in internal energy of the

change in internal energy = J [1]

(iv)
loss.

Determine the rate of heat

rate of heat loss = W [3]

[Total: 9]