## **Thermodynamics**

 $p_{o}$ 

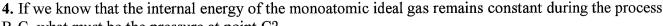
WBC = ZpoVoluZ

A monoatomic ideal gas is taken through the cycle  $A \rightarrow B \rightarrow C \rightarrow A$  shown in the figure. Find:

1. the heat flowing into the gas during the process A -B

2. the work done by the gas during process A -B

3. the change in internal energy from A to B



B-C, what must be the pressure at point C?

Find:

5. the work done by the gas during the process B-C

6. the heat flowing into the gas during the process B -C

7. the heat flowing into the gas during the process C -A

8. the work done by the gas during process C –A

9. the change in internal energy from C to A

10. What is the total work done by the system in the complete cycle?

11. How much heat flows into the system in a complete cycle?