

Physics 231 - 15-Nov-99



- Announcements
- Thermodynamic Processes
 - Isobaric, Isometric, Isothermal
 - Adiabatic
- Cyclical Processes
- The Carnot Cycle
- quiz

Thermodynamic Processes



- Isobaric - P is constant
- Isometric - V is constant
- Isothermal - T is constant

Adiabatic Process



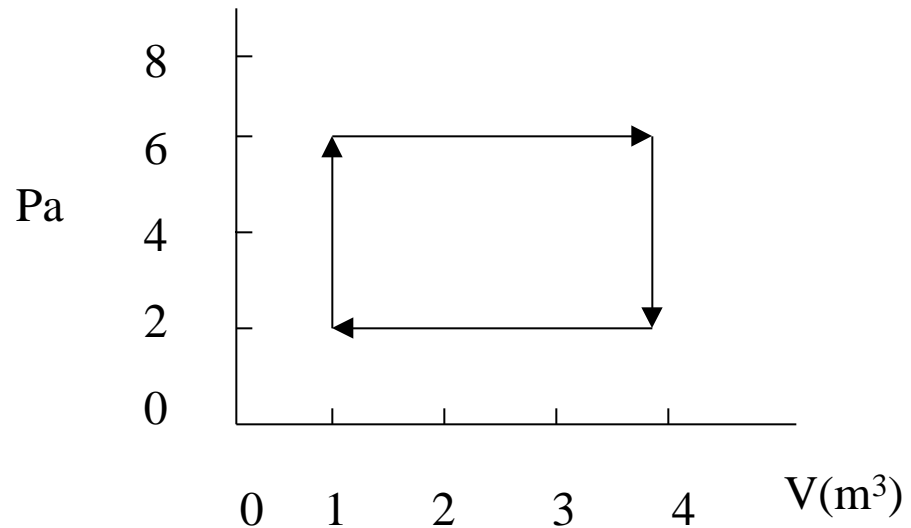
- $Q = 0$
- PV is constant; $\gamma = 1.67$ for monatomic gases

Q1 - Answer = c

Q2 - Problem A - Last name A-K

A heat engine runs on a cycle shown below.
How much work is done by the engine during
one cycle?

- A. 18 J
- B. -18 J
- C. 2 J J
- D. 6 J
- E. -6 J



Q1 - Answer = c

Q2 - Problem B - Last Name L-Z

- A heat engine runs on a cycle shown below. How much work is done by the engine during one cycle?

- A. 4.5 J
- B. -4.5 J
- C. 9 J
- D. -9 J
- E. 12 J

