Physics 231 - 12-Nov-99

- Announcements
- First Law of Thermodynamics
- Volume Change and Work
- Isobaric Process
- Isothermal Process
- Isometric Process
- quiz

First Law of Thermodynamics

Isobaric Process

- Work and Isobaric Process

Other Processes

- Isothermal Process
- Isometric Process

Q1 - Answer = c

Q2 - Problem A - Last name A-K

A container with 0.5 kg of water is fitted with a piston. If the water is turned to steam so that the volume changes from 0.5 $x10^{-3}$ m^3 to 0.9 $x10^{-3}$ m^3, how much work is done by the piston against the atmosphere?(Atm. Press. = 1.01 x 10^5 Pa.)

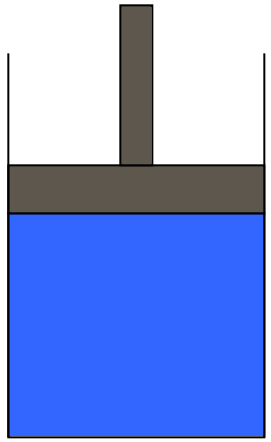
A. 90.9 J

B. 60.6 J

C. 4.04 J

D. 40.4 J

E. 50.5 J



Q1 - Answer = c
Q2 - Problem B - Last Name L-Z

- A container with 0.3 kg of water is fitted with a piston. If the water is turned to steam so that the volume changes from 0.5 $x10^{-3}$ m^3 to 1.4 $x10^{-3}$ m^3, how much work is done by the piston against the atmosphere?(Atm. Press. = 1.01 x 10^5 Pa.)

A. 9.09 J

B. 30.3 J

C. 90.9 J

D. 50.5 J

E. 140 J