

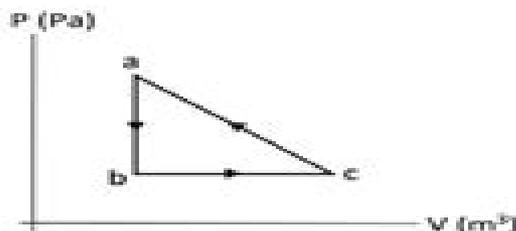
# First Law of Thermodynamics

Grade

Name \_\_\_\_\_ Date \_\_\_\_\_

Use the following P-V diagram to answer questions about this thermodynamic cycle consisting of three processes labeled  $ab$ ,  $bc$ , and  $ca$ .

$P_a = 3.00 \times 10^5 \text{ Pa}$ ,  $P_b = 1.00 \times 10^5 \text{ Pa}$ ,  $V_a = 3 \times 10^{-3} \text{ m}^3$ ,  $V_c = 9 \times 10^{-3} \text{ m}^3$ .



a) Identify the type of thermodynamic processes for each part of the cycle ( $ab$ ,  $bc$ ,  $ca$ ) as:

- |        |              |              |                |                |                  |
|--------|--------------|--------------|----------------|----------------|------------------|
| $ab$ : | i) adiabatic | ii) isobaric | iii) isochoric | iv) isothermal | v) none of these |
| $bc$ : | i) adiabatic | ii) isobaric | iii) isochoric | iv) isothermal | v) none of these |
| $ca$ : | i) adiabatic | ii) isobaric | iii) isochoric | iv) isothermal | v) none of these |

b) For the process  $ab$ , determine (i) the work  $W_{ab}$  done by the gas and (ii) the change in internal energy of the system for a heat loss of 900 J. [Hints: for (i) recall that  $W$  is the area under the curve; for (ii) use the 1<sup>st</sup> Law.]

c) For the process  $bc$ , determine (i) the work  $W_{bc}$  done by the gas and (ii) the change in internal energy of the system for a heat gain of 1250 J.

d) For the process  $ca$ , determine (i) the work  $W_{ca}$  done by the gas and (ii) the change in internal energy of the system for a heat gain of 150 J.

e) Determine the total work  $W_{tot}$  done by the gas in the cycle. Compare this to the area of the triangle. Note that both are negative. Also note that the total change in internal energy is zero, as it must be when the system returns to the same state.

# Thermodynamic Questions And Answers

**S. K. Roy**



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*Thermodynamics and Thermal Engineering* J.Selwin Rajadurai,2003 Thermodynamics And Thermal Engineering A Core Text In SI Units Meets The Complete Requirements Of The Students Of Mechanical Engineering In All Universities Ultimately It Aims At Aiding The Students Genuinely Understand The Basic Principles Of Thermodynamics And Apply Those Concepts To Practical Problems Confidently It Provides A Clear And Detailed Exposition Of Basic Principles Of Thermodynamics Concepts Like Enthalpy Entropy Reversibility Availability Are Presented In Depth And In A Simple Manner Important Applications Of Thermodynamics Like Various Engineering Cycles And Processes Are Explained In Detail Introduction To Latest Topics Are Enclosed At The End Each Topic Is Further Supplemented With Solved Problems Including Problems From Gate Ies Exams Objective Questions Along With Answers Review Questions And Exercise Problems Alongwith Answers For An Indepth Understanding Of The Subject      **Fundamentals of Engineering Thermodynamics** R. Yadav ,2023-05-10

Thermodynamics deals with energy interactions between material bodies It is the science of 3E s namely Energy Entropy and Equilibrium The applications of its laws and principles are found in all fields of energy technology notably in steam gas and nuclear power plants internal combustion engines gas turbines jet propulsion refrigeration air conditioning compressors gas dynamics and direct energy conversion Starting with the basic concept the book discusses the important topics such as basic concepts heat and work energy ideal and real gases zeroth first and second laws of thermodynamics entropy and third law available energy and exergy gas power cycles vapour power cycles general thermodynamic relations refrigeration cycles psychrometry non reactive mixtures reactive mixture chemical equilibrium direct energy conversion compressible flows and heat transfer The book is an essential text for BE B Tech for Mechanical Engineering students UPSC and GATE examinations

Thermal Physics and Statistical Mechanics S. K. Roy,2001 This Book Emphasises The Development Of Problem Solving Skills In Undergraduate Science And Engineering Students The Book Provides More Than 350 Solved Examples With Complete Step By Step Solutions As Well As Around 100 Practice Problems With Answers Also Explains The Basic Theory Principles Equations And Formulae For A Quick Understanding And Review Can Serve Both As A Useful Text And Companion Book To Those Preparing For Various Examinations In Physics      **Thermodynamics with Chemical Engineering**

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including over 500 open ended study questions for discussion over 150 varied homework problems clear and objective standards for measuring student progress and a password protected solution manual for instructors

**Classical and Quantum Thermal Physics** R. Prasad, 2016-11-02 Discusses the interactions of heat energy and matter *The Thermodynamics of Electrical Phenomena in Metals, and A Condensed Collection of Thermodynamic Formulas* Percy Williams Bridgman, 1961 *Schaums Outline of Thermodynamics for Engineers, Fourth Edition* Merle C. Potter, Craig W. Somerton, 2019-10-22

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*Thermodynamics* Josiah Willard Gibbs,1906

Foundations of the Thermodynamic Theory of Generalized Fields Mahmoud A. Melehy,1973

The Collected Works of J. Willard Gibbs ...: Thermodynamics Josiah Willard Gibbs,1928

*Schaum's Outline of Theory and Problems of Thermodynamics* Michael M. Abbott,Hendrick C. Van Ness,1976

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understanding physical phenomena This book will interest students engineering learners and those studying physics who want to understand thermodynamics and its applications

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