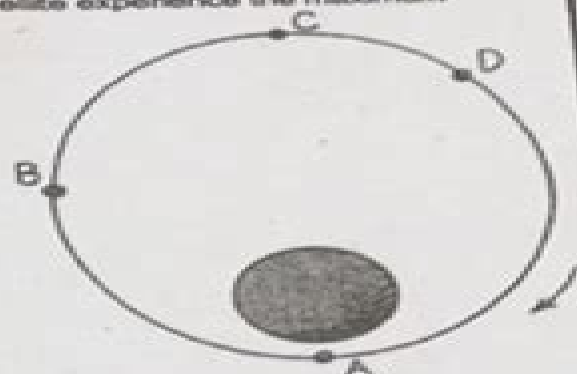


**Mechanics Overview—Chapters 1 to 10**

1. The sketch shows the elliptical path described by a satellite about Earth. In which of the labeled positions, A to D, (put "S" for "same everywhere") does the satellite experience the maximum

- a. gravitational force? \_\_\_\_\_
- b. speed? \_\_\_\_\_
- c. momentum? \_\_\_\_\_
- d. kinetic energy? \_\_\_\_\_
- e. gravitational potential energy? \_\_\_\_\_
- f. total energy (KE + PE)? \_\_\_\_\_
- g. acceleration? \_\_\_\_\_
- h. angular momentum? \_\_\_\_\_



2. Answer the above questions for a satellite in circular orbit.

- a. \_\_\_\_\_ b. \_\_\_\_\_ c. \_\_\_\_\_ d. \_\_\_\_\_
- e. \_\_\_\_\_ f. \_\_\_\_\_ g. \_\_\_\_\_ h. \_\_\_\_\_

3. In which position(s) is there momentarily no work being done on the satellite by the force of gravity? Why?

4. Work changes energy. Let the equation for work,  $W = Fd$ , guide your thinking on the following. Defend your answers in terms of  $W = Fd$ .

- a. In which position will a several-minutes thrust of rocket engines pushing the satellite forward do the most work on the satellite and give it the greatest change in kinetic energy? (Hint: Think about where the most distance will be traveled during the application of a several-minutes thrust.)

- b. In which position will a several-minutes thrust of rocket engines pushing the satellite forward do the least work on the satellite and give it the least boost in kinetic energy?

- c. In which position will a several-minutes thrust of a retro-rocket (pushing opposite to the satellite's direction of motion) do the most work on the satellite and change its kinetic energy the most?

*Handwritten:* Hint!

# Conceptual Physics Practice Page Mechanics Overview

**Nancy Patricia Hamilton, Kathryn  
Luttgens**



## **Conceptual Physics Practice Page Mechanics Overview:**

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