ASTR

Example Test Questions

a. B and C
b. C and D
c. E and F
d. F and G

The following are example test questions. The red circles are the student's original (incorrect) answers.

Example Test Questions

24. In the figure at right, the motion of a planet traveling around a star is shown. The shaded area was swept out as the planet traveled from position A to position B. Between which two other indicated positions would the planet sweep out another area such that the motion obeys Kepler's second law?



- 35. Imagine that you throw a ball directly upward. Which of the following statements best describes how Newton's second law accounts for the motion of the ball when it reaches its maximum height?
 - a. The ball has a velocity that is zero and an acceleration that is zero.
 - b. The ball has a velocity that is upward and an acceleration that is downward.
 - c. The ball has a net force that is downward and an acceleration that is downward.
 - d. The ball has a net force that is downward and a velocity that is downward.
 - (e) The ball has a net force that is downward and an acceleration of zero.
- 47. Who is responsible for the three laws governing the motions of *all* bodies in the universe?
 - a. Copernicus
 - b. Brahe
 - C Kepler
 - d. Galileo
 - e. Newton