

Planetary Orbit Simulator – Student Guide

Background Material

Answer the following questions after reviewing the “Kepler’s Laws and Planetary Motion” and “Newton and Planetary Motion” background pages.

Question 1: Draw a line connecting each law on the left with a description of it on the right.

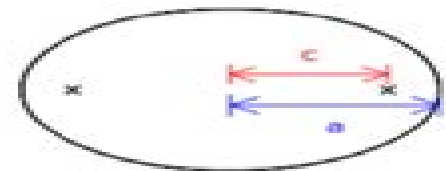
Kepler’s 1 st Law	only a force acting on an object can change its motion
Kepler’s 2 nd Law	planets move faster when close to the sun
Kepler’s 3 rd Law	planets orbit the sun in elliptical paths
Newton’s 1 st Law	planets with large orbits take a long time to complete an orbit

Question 2: When written as $P^2 = a^3$ Kepler’s 3rd Law (with P in years and a in AU) is applicable to ...

- a) any object orbiting our sun.
- b) any object orbiting any star.
- c) any object orbiting any other object.

Question 3: The ellipse to the right has an eccentricity of about ...

- a) 0.25
- b) 0.5
- c) 0.75
- d) 0.9



Question 4: For a planet in an elliptical orbit to “sweep out equal areas in equal amounts of time” it must ...

- a) move slowest when near the sun.
- b) move fastest when near the sun.
- c) move at the same speed at all times.
- d) have a perfectly circular orbit.

Planetary Orbit Simulator Student Guide Answers Answers

Jiyuan Zhang



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