

**Analyze**

1. See Data Table.
2. See Data Table.
3. See Data Table. Sample Calculation for Pluto:  $e = 4/16 = 0.25$
4. See Data Table.
5. Both foci are at the center.
6. It is very close to being a circle.
7. The comet. It looks more flattened out than the other orbits.

**Conclude and Apply**

1. Yes, the planets and comet travel in elliptical orbits.
2. Since the eccentricity of Earth is so small, Kepler might not have concluded that planets have elliptical orbits.
3. It travels fastest at perihelion. According to Kepler's second law, equal areas are swept out in equal time. Since there is less area available at perihelion, the planet must move faster.

$$4. \frac{v_P}{v_A} = \frac{A}{P} = \frac{10.0}{6.0} = \frac{1.7}{1}$$

5.  $v_A =$  minimum velocity  
 $= 3.7 \text{ km/s}$   
 $v_P = 1.7 \times v_A$   
 $= 1.7 \times 3.7 \text{ km/s}$   
 $= 6.3 \text{ km/s}$

**Going Further**

1. Collect data using dates of location of a planet. Use areas and dates to confirm the second law.
2. In order to show the third law, a computer model would have a planet actually moving so that periods and distances could be measured.

**Real-World Physics**

Students can research elliptical orbits of satellites. Encourage the students to pick one or two satellites and, if possible, plot orbit data to determine the path that each satellite takes.

**Study Guide****Vocabulary Review**

1. inertial mass
2. Kepler's second law
3. gravitational mass
4. gravitational field
5. Newton's law of universal gravitation

**Section 7-1****Planetary Motion and Gravitation**

1. Copernicus
2. Brahe
3. Brahe
4. Kepler
5. Newton
6. Kepler
7. Newton
8. Kepler
9. third
10. first
11. first
12. third
13. second
14.  $t_2 - t_1 = t_4 - t_3$
15. planet B's average distance from the Sun
16. It is least at point 3 and greatest at point 1.
17. The magnitude of the force at point 3 is  $\frac{1}{36}F$
18.  $r_B = \sqrt{\frac{T_B^2 r_A^3}{T_A^2}}$
19.  $2F$
20.  $\frac{1}{4}F$
21.  $6F$
22.  $4F$
23.  $4F$
24. the planet's mean distance from the Sun as well as the mass of the Sun

# Chapter 3 Study Guide Answer Key Physics Principles And Problems

**Christian G. Meyer**



### **Chapter 3 Study Guide Answer Key Physics Principles And Problems:**

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In some sort of inundated with monitors and the cacophony of instant conversation, the profound power and mental resonance of verbal artistry often disappear in to obscurity, eclipsed by the continuous onslaught of sound and distractions. However, situated within the lyrical pages of **Chapter 3 Study Guide Answer Key Physics Principles And Problems**, a charming function of fictional splendor that pulses with fresh feelings, lies an remarkable journey waiting to be embarked upon. Written by a virtuoso wordsmith, that interesting opus courses readers on an emotional odyssey, lightly exposing the latent possible and profound influence stuck within the intricate web of language. Within the heart-wrenching expanse of this evocative analysis, we shall embark upon an introspective exploration of the book is key styles, dissect their charming writing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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