

**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**

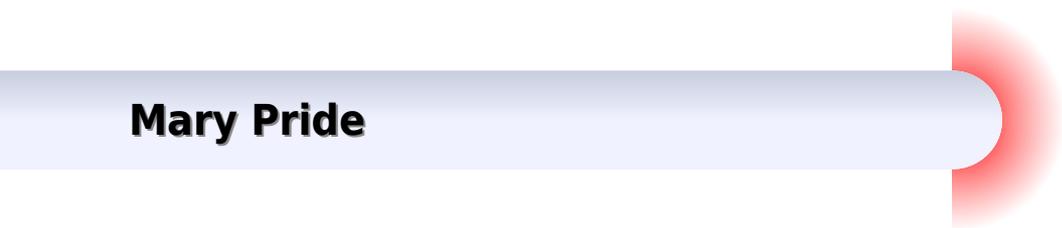
1. inertial mass
2. Kepler's second law
3. gravitational mass
4. gravitational field
5. Newton's law of universal gravitation

**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 7 Supplemental Problems Gravitation Answer Key

**Mary Pride**



**Chapter 7 Supplemental Problems Gravitation Answer Key:**

*Physics Briefs* ,1990     Science Abstracts ,1963     **Big Book of Home Learning** Mary Pride,1991-07 Learn at home with exciting products for all school subjects New     **Bulletin of the Atomic Scientists** ,1961-05 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world

**Science Books & Films** ,1989     Mathematical Reviews ,2001     *American Book Publishing Record Cumulative, 1876-1949* R.R. Bowker Company. Department of Bibliography,1980

**SOLUTIONS.** ,2004

**CH. 4 SUPPLEMENTAL PROBLEMS**

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