

**Alcoa Building:** The architects who designed the Alcoa building in San Francisco used a grid of isosceles triangles.\*



28. Copy this figure based on that grid and mark the following information on it:  $AL = LC = CO = OA$ ;  $\angle A = \angle C$ .
29. What kind of triangles are  $\triangle LAO$  and  $\triangle LCO$ ?
30. Why is  $\angle 1 = \angle 3$  and  $\angle 2 = \angle 4$ ?
31. Why is  $\angle 1 + \angle 2 = \angle 3 + \angle 4$ ?

From the figure, we see that  $LA = LO = LC$  and  $OA = OC = OC$ .

32. Why is  $\angle ALC = \angle 1 + \angle 2$  and  $\angle AOC = \angle 3 + \angle 4$ ?
33. Why is  $\angle ALC = \angle AOC$ ?
34. Why is  $\triangle LAO = \triangle LCO$ ?
35. Why is  $\angle 1 = \angle 2$  and  $\angle 3 = \angle 4$ ?
36. What relation does  $LO$  have to  $\angle ALC$  and  $\angle AOC$ ?



**Magillford Court**

The figure at the right shows one of the nesting rooms of a shellfish court.  $SH = HU = UF = FL = LE = EB$ .

\*Courtesy of Architects, by William Blackwell (Wiley, 1982).

37. What relation does  $OD$  appear to have to  $SB$ ,  $HE$ , and  $UL$ ?
38. What relation do  $SB$ ,  $HE$ , and  $UL$  appear to have to one another?
39. What kind of triangles are  $\triangle SHF$ ,  $\triangle HEF$ , and  $\triangle LUF$ ?
- Given that  $\angle F = 36^\circ$ , find the measures of
40.  $\angle S$  and  $\angle B$ .
41.  $\angle LEF$  and  $\angle LUF$ .
42.  $\angle SLU$  and  $\angle BLU$ .

**Set II**

Theorem 10 can be proved in a way almost identical with the proof of Theorem 5.

43. Write a complete proof of Theorem 10 by first copying it, the figure, and the "given" and "prove." Use the proof of Theorem 5 as a guide in writing your proof.

**Theorem 10** If two angles of a triangle are equal, the sides opposite them are equal.



Given:  $\triangle CEF$ ;  $\angle C = \angle G$ .  
Prove:  $CE = GE$ .

Theorem 9 can be used to prove its corollary.

44. Write a complete proof of the corollary by first copying it, the figure, and the "given" and "prove." Copy the statements and give the reasons.

**Corollary:** An equilateral triangle is equilateral.

Given:  $\triangle ABC$  is equilateral.  
Prove:  $\triangle ABC$  is equilateral.



*Proof*

- Statement**
- $\triangle ABC$  is equilateral.
  - $BC = AC$  and  $AC = AB$ .
  - $\angle A = \angle B$  and  $\angle B = \angle C$ .
  - $\angle A = \angle C$ .
  - $\triangle ABC$  is equilateral.

**Reason**

Why?  
Why?  
Why?  
Why?  
Why?

The proof of the corollary to Theorem 10 is almost the same.

45. Copy the following and use the proof in exercise 34 as a guide in writing your proof.

**Corollary:** An equilateral triangle is equilateral.



Given:  $\triangle ABC$  is equilateral.  
Prove:  $\triangle ABC$  is equilateral.

**Hydrogen Molecule:** One of the reasons that rotten eggs stink is hydrogen sulfide. The hydrogen sulfide molecule consists of a sulfur atom bonded to two hydrogen atoms.\*



In  $\triangle SH_1H_2$ ,  $S$  represents the center of the sulfur atom;  $H_1$  and  $H_2$  represent the centers of the hydrogen atoms;  $SH_1 = SH_2$ .

46. What kind of triangle is  $\triangle SH_1H_2$  with respect to its sides?

The measure of  $\angle H_1$  is  $45^\circ$ . Find the measure of

47.  $\angle H_2$ .

\*The Molecules of Mankind, by Lewis Pauling and Roger Hayward (W. H. Freeman and Company, 1964).

48.  $\angle S$ .

49. What kind of triangle is  $\triangle SH_1H_2$  with respect to its angles?
40. If you know that  $SH_1 = SH_2 = 1.34$  angstroms, could you use the Pythagorean Theorem to find the length of  $H_1H_2$ ? Explain.

In the figure below,  $\triangle ABD$  is equilateral and  $D$  is the midpoint of  $AC$ .



41. Copy the figure and mark this information on it.

$\triangle BDC$  is evidently obtuse.

42. What further conclusions can you draw about  $\triangle BDC$ ? Explain your reasoning.

**Star Pentagon:** In the accurately drawn figure below, 10 line segments connect the 5 labeled points.



43. What kind of polygon is the blue polygon?

44. Why isn't the red star a polygon?

All of the sides and angles of the blue polygon are equal.

45. Do you think that the 5 line segments that form the red star also must be equal? Explain why or why not.

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**Michael Rajnik**



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### **Table of Contents Prentice Hall Geometry Form G Answers Key**

1. Understanding the eBook Prentice Hall Geometry Form G Answers Key
  - The Rise of Digital Reading Prentice Hall Geometry Form G Answers Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Prentice Hall Geometry Form G Answers Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Prentice Hall Geometry Form G Answers Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Prentice Hall Geometry Form G Answers Key
  - Personalized Recommendations
  - Prentice Hall Geometry Form G Answers Key User Reviews and Ratings

- Prentice Hall Geometry Form G Answers Key and Bestseller Lists
- 5. Accessing Prentice Hall Geometry Form G Answers Key Free and Paid eBooks
  - Prentice Hall Geometry Form G Answers Key Public Domain eBooks
  - Prentice Hall Geometry Form G Answers Key eBook Subscription Services
  - Prentice Hall Geometry Form G Answers Key Budget-Friendly Options
- 6. Navigating Prentice Hall Geometry Form G Answers Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Prentice Hall Geometry Form G Answers Key Compatibility with Devices
  - Prentice Hall Geometry Form G Answers Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Prentice Hall Geometry Form G Answers Key
  - Highlighting and Note-Taking Prentice Hall Geometry Form G Answers Key
  - Interactive Elements Prentice Hall Geometry Form G Answers Key
- 8. Staying Engaged with Prentice Hall Geometry Form G Answers Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Prentice Hall Geometry Form G Answers Key
- 9. Balancing eBooks and Physical Books Prentice Hall Geometry Form G Answers Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Prentice Hall Geometry Form G Answers Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Prentice Hall Geometry Form G Answers Key
  - Setting Reading Goals Prentice Hall Geometry Form G Answers Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Prentice Hall Geometry Form G Answers Key
  - Fact-Checking eBook Content of Prentice Hall Geometry Form G Answers Key
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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