

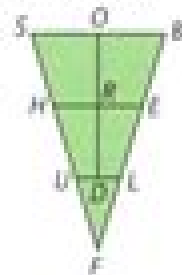
**Alcoa Building:** The architects who designed the Alcoa building in San Francisco used a grid of isosceles triangles.\*



18. Copy this figure based on that grid and mark the following information on it:  $AE = EC = EO = OB$ ;  $\angle A = \angle C$ .
19. What kind of triangles are  $\triangle AEO$  and  $\triangle CEO$ ?
20. Why is  $\angle 1 = \angle 3$  and  $\angle 2 = \angle 4$ ?
21. Why is  $\angle 1 + \angle 2 = \angle 3 + \angle 4$ ?

From the figure, we see that  $LAEO = LC$  and  $OAEO = OC$ .

22. Why is  $\angle AEC = \angle 1 + \angle 2$  and  $\angle AOC = \angle 3 + \angle 4$ ?
23. Why is  $\angle AEC = \angle AOC$ ?
24. Why is  $\triangle AEO = \triangle CEO$ ?
25. Why is  $\angle 1 = \angle 2$  and  $\angle 3 = \angle 4$ ?
26. What relation does  $EO$  have to  $\angle AEC$  and  $\angle AOC$ ?



**Shuffleboard Court:**

The figure at the right shows one of the wiring routes of a shuffleboard court.  $SH = HU = UF = FL = LE = EB$ .

\*Geometry in Architecture, by William Blackwell (Wiley, 1984).

27. What relation does  $EO$  appear to have to  $SB$ ,  $HE$ , and  $UL$ ?
  28. What relation do  $SB$ ,  $HE$ , and  $UL$  appear to have to one another?
  29. What kind of triangles are  $\triangle SEF$ ,  $\triangle HED$ , and  $\triangle LFD$ ?
- Given that  $\angle F = 30^\circ$ , find the measures of
30.  $\angle S$  and  $\angle B$ .
  31.  $\angle LEF$  and  $\angle ULF$ .
  32.  $\angle SUL$  and  $\angle BLU$ .

## Set II

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

33. 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: In  $\triangle BEC$ ,  $\angle E = \angle F$ .  
Prove:  $BE = EC$ .

Theorem 9 can be used to prove its corollary.

34. 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**
1.  $\triangle ABC$  is equilateral.
  2.  $BC = AC$  and  $AC = AB$ .
  3.  $\angle A = \angle B$  and  $\angle B = \angle C$ .
  4.  $\angle A = \angle C$ .
  5.  $\triangle ABC$  is equilateral.

**Reason**

Why?  
Why?  
Why?  
Why?

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

35. 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 water eggs stick 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.  $SH_1 = SH_2$ .

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

The measure of  $\angle H_1$  is  $43.0^\circ$ . Find the measure of

37.  $\angle H_2$ .

\*The Architecture of Molecules, by Louis Pauling and Roger Hayward (W. H. Freeman and Company, 1966).

38.  $\angle S$ .

39. 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 Polygon:** 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.

# Jacobs Geometry Third Edition Teachers Guide

**Camilla Rothe**



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## **Table of Contents Jacobs Geometry Third Edition Teachers Guide**

1. Understanding the eBook Jacobs Geometry Third Edition Teachers Guide
  - The Rise of Digital Reading Jacobs Geometry Third Edition Teachers Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Jacobs Geometry Third Edition Teachers Guide
  - 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 Jacobs Geometry Third Edition Teachers Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Jacobs Geometry Third Edition Teachers Guide
  - Personalized Recommendations
  - Jacobs Geometry Third Edition Teachers Guide User Reviews and Ratings
  - Jacobs Geometry Third Edition Teachers Guide and Bestseller Lists
5. Accessing Jacobs Geometry Third Edition Teachers Guide Free and Paid eBooks
  - Jacobs Geometry Third Edition Teachers Guide Public Domain eBooks
  - Jacobs Geometry Third Edition Teachers Guide eBook Subscription Services
  - Jacobs Geometry Third Edition Teachers Guide Budget-Friendly Options
6. Navigating Jacobs Geometry Third Edition Teachers Guide eBook Formats

- ePub, PDF, MOBI, and More
  - Jacobs Geometry Third Edition Teachers Guide Compatibility with Devices
  - Jacobs Geometry Third Edition Teachers Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Jacobs Geometry Third Edition Teachers Guide
    - Highlighting and Note-Taking Jacobs Geometry Third Edition Teachers Guide
    - Interactive Elements Jacobs Geometry Third Edition Teachers Guide
  8. Staying Engaged with Jacobs Geometry Third Edition Teachers Guide
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Jacobs Geometry Third Edition Teachers Guide
  9. Balancing eBooks and Physical Books Jacobs Geometry Third Edition Teachers Guide
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Jacobs Geometry Third Edition Teachers Guide
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Jacobs Geometry Third Edition Teachers Guide
    - Setting Reading Goals Jacobs Geometry Third Edition Teachers Guide
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Jacobs Geometry Third Edition Teachers Guide
    - Fact-Checking eBook Content of Jacobs Geometry Third Edition Teachers Guide
    - 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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