

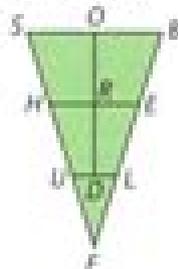
**Alcoa Building:** The architects who designed the Alcoa building in San Francisco used a grid of isosceles triangles.\*



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 wiring routes of a shellfolded 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.  $\angle SUL$  and  $\angle ULU$ .

**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 9 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  $\triangle EFG$ ,  $\angle E = \angle F$ .  
Prove:  $GE = GF$ .

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.

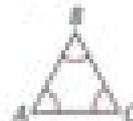
**Reason**

Why?  
Why?  
Why?  
Why?  
Why?

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

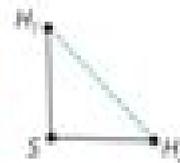
45. Copy the following and use the proof in exercise 34 as a guide in writing your proof.

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



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

**Hydrogen Molecule:** One of the reasons that water eggs sink 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  $43^\circ$ . Find the measure of

47.  $\angle H_2$ .

\*The Molecules of Mankind, by Louis Pasteur and August Hayward (W. B. Eerdmans and Company, 1904).

48.  $\angle S$ .

49. What kind of triangle is  $\triangle SH_1H_2$  with respect to its angles?
50. 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  $AC$ .

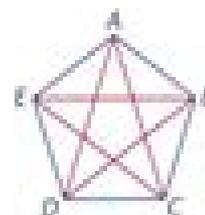


41. Copy the figure and mark this information on it.

$\triangle BDC$  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.

# Geometry Seeing Doing Understanding

**Tobias Bleicker**



**Geometry Seeing Doing Understanding:**

## **Geometry Seeing Doing Understanding** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Geometry Seeing Doing Understanding**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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