

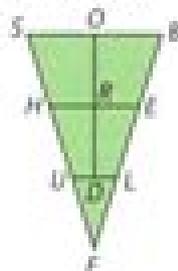
**Alcoa Building:** The architects who designed the Alcoa building in San Francisco used a grid of isosceles triangles.\*



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  $\angle AOC$ ?



**Skylight's Crest**

The figure at the right shows one of the wiring issues of a skylight's crest.  $SH = HU = UF = FL = LE = EB$ .

\*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.

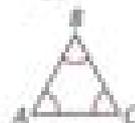
**Reason**

Why?  
Why?  
Why?  
Why?

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?
48. 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  $AC$ .

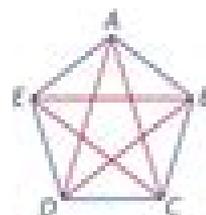


49. Copy the figure and mark this information on it.

$\triangle BDC$  is evidently obtuse.

50. 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.



51. What kind of polygon is the blue polygon?
52. Why isn't the red star a polygon?

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

53. 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 3rd Edition

**D Kirk**



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