

**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  $EA = EO = EC$  and  $OA = OB = OC$ .

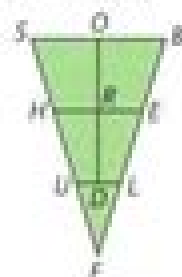
22. Why is  $\angle AEC = \angle 1 + \angle 3$  and  $\angle AOC = \angle 2 + \angle 4$ ?

23. Why is  $\angle AEC = \angle AOC$ ?

24. Why is  $\triangle AEO = \triangle CEO$ ?

25. Why is  $\angle 1 = \angle 3$  and  $\angle 2 = \angle 4$ ?

26. What relation does  $EO$  have to  $\angle AEC$  and  $\angle AOC$ ?



**Shuffleboard Court.**

The figure at the right shows one of the serving zones 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  $\triangle ULF$ ?

Given that  $\angle F = 36^\circ$ , find the measures of

30.  $\angle S$  and  $\angle B$ .

31.  $\angle LEF$  and  $\angle ULF$ .

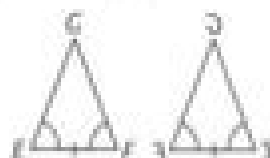
32.  $\angle SLU$  and  $\angle BLU$ .

## Set II

Theorem 10 can be proved in a way almost identical with the proof of Theorem 9.

33. 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.

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.**

**Statements**

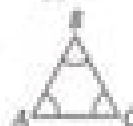
1.  $\triangle ABC$  is equilateral.
2.  $BC = AC$  and  $AC = AB$ .
3.  $\angle A = \angle B$  and  $\angle B = \angle C$ .
4.  $\angle A = \angle C$ .
5.  $\triangle ABC$  is equilateral.

**Reasons**  
Why?  
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.

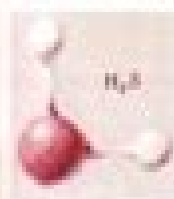
**Corollary.** An equilateral triangle is equilateral.



Given:  $\triangle ABC$  is equilateral.

Prove:  $\triangle ABC$  is equilateral.

**Hydrogen Molecule.** One of the reasons that water eggs sink in 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  $45.9^\circ$ . Find the measure of

37.  $\angle H_2$ .

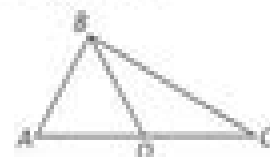
\*The Architecture of Molecules, by Lewis Pauling and Roger Hayward (S. H. Freeman and Company, 1964).

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 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.

# Prentice Hall Gold Geometry Chapter 3 Test

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