

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: $AL = LC = CO = OA$; $\angle A = \angle C$.
19. What kind of triangles are $\triangle LAO$ and $\triangle LCO$?
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 $LA = LO = LC$ and $OA = OC = OC$.

22. Why is $\angle ALC = \angle 1 + \angle 2$ and $\angle AOC = \angle 3 + \angle 4$?
23. Why is $\angle ALC = \angle AOC$?
24. Why is $\triangle LAO = \triangle LCO$?
25. Why is $\angle 1 = \angle 2$ and $\angle 3 = \angle 4$?
26. What relation does LO have to $\angle ALC$ 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 OD 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 $\triangle SHF$, $\triangle HED$, and $\triangle LFD$?
- Given that $\angle F = 36^\circ$, find the measures of
30. $\angle S$ and $\angle B$.
 31. $\angle LUF$ 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 $\triangle ABC$, $\angle B = \angle C$.
Prove: $AD = AD$.

Theorem 5 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 sulfate. The hydrogen sulfate 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° . Find the measure of

37. $\angle H_2$.

*The Architecture of Molecules, by Louis Pauling and Roger Hayward (W. 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 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.

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Harold R. Jacobs



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