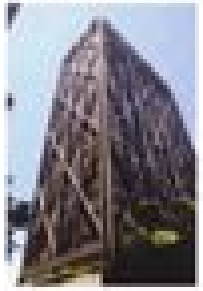
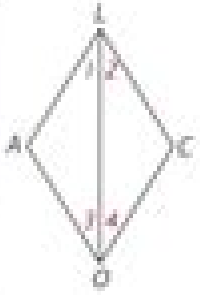
Alvoa Building. The architects who designed the Alvoa building in San Francisco used a grid of isosceles triangles.*



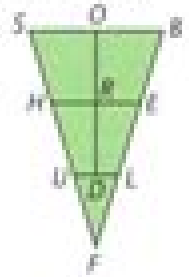


18. Copy this figure based on that grid and mark the following information on it: AL = LC = CO = OA; ∠A = ∠C.
19. What kind of triangles are △LAO and △LCO?
20. Why is ∠1 = ∠3 and ∠2 = ∠4?
21. Why is ∠1 + ∠2 = ∠3 + ∠4?

From the figure, we see that LA·LO·LC and OA·OL·OC.

22. Why is ∠ALC = ∠1 + ∠3 and ∠AOC = ∠3 + ∠4?
23. Why is ∠ALC = ∠AOC?
24. Why is △LAO ≅ △LCO?
25. Why is ∠1 = ∠2 and ∠3 = ∠4?
26. What relation does LO have to ∠ALC and ∠AOC?

Shuffleboard Court. The figure at the right shows one of the scoring zones of a shuffleboard court. SH = HU = UF = FL = LE = ES.



*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 △SBF, △HED, and △ULF?

Given that ∠F = 36°, find the measures of

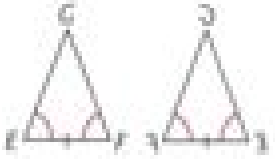
30. ∠5 and ∠B.
31. ∠LUF and ∠ULF.
32. ∠SUL and ∠BLU.

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 △DFG, ∠E = ∠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 equiangular.

Given: △ABC is equilateral.
Prove: △ABC is equiangular.

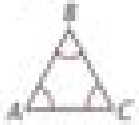
Proof

Statement	*Reason*
1. △ABC is equilateral.	Why?
2. BC = AC and AC = AB.	Why?
3. ∠A = ∠B and ∠B = ∠C.	Why?
4. ∠A = ∠C.	Why?
5. △ABC is equiangular.	Why?

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

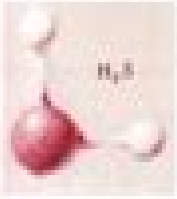
35. Copy the following and use the proof to exercise 34 as a guide in writing your proof.

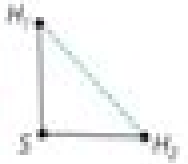
Corollary. An equiangular triangle is equilateral.



Given: △ABC is equiangular.
Prove: △ABC is equilateral.

Hydrogen Sulfide. One of the reasons that rotten eggs stink is hydrogen sulfide. The hydrogen sulfide molecule consists of a sulfur atom bonded to two hydrogen atoms.*





In △SH_1H_2, S represents the center of the sulfur atom; H_1 and H_2 represents the centers of the hydrogen atoms; $SH_1 = SH_2$.

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

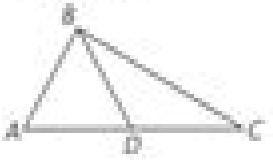
The measure of ∠H_1 is 43.8°. Find the measure of

37. ∠H_2

*The Architecture of Molecules, by Linus Pauling and Roger Hayward (W. H. Freeman and Company, 1964).

38. ∠S.
39. What kind of triangle is △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, △ABD is equiangular and D is the midpoint of AC.

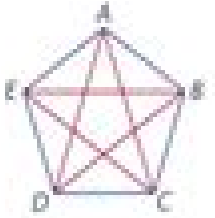


41. Copy the figure and mark this information on it.

△BDC is evidently obtuse.

42. What further conclusions can you draw about △BDC? Explain your reasoning.

Star Puzzle. In the accurately drawn figure below, 10 line segments connect the 5 lettered 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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Martha A. Tucker,Nancy D. Anderson

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