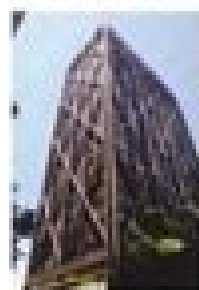


Alcoa Building. The architects who designed the Alcoa building in San Francisco used a grid of isosceles triangles.*



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 $LAEO = LC$ and $OAEO = OC$.

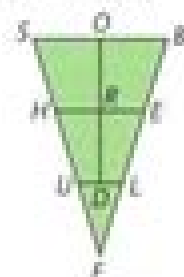
22. Why is $\angle AEC = \angle 1 + \angle 2$ and $\angle AOC = \angle 3 + \angle 4$?

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 $\angle AOC$?



Shallford Court.

The figure at the right shows one of the nesting rooms of a shallford court. $SH = HU = UF = FL = LE = EB$.

*Geometry in Architecture, by William Blackwell (Wiley, 1964).

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 $\triangle LFD$?

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

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

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

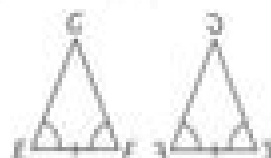
32. $\angle SLH$ and $\angle BLH$.

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 $\triangle AEF$, $\angle E = \angle F$.

Prove: $AE = AF$.

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

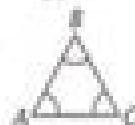
1. $\triangle ABC$ is equilateral.
2. $BC = AC$ and $AC = AB$.
3. $\angle A = \angle B$ and $\angle B = \angle C$.
4. $\angle A = \angle C$.
5. $\triangle ABC$ is equilateral.

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.

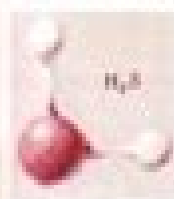
Corollary. An equilateral triangle is equilateral.



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° . Find the measure of

37. $\angle H_2$.

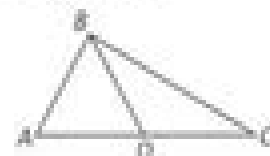
*The Architecture of Molecules, by Lewis Pauling and Roger Hayward (S. H. Freeman and Company, 1964).

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.

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Computer Graphics and Geometric Modelling Max K. Agoston, 2005-01-04

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