- 1. What is the sum of the measures of the exterior angles of a decagon?
- 2. What is the measure of an exterior angle of an equiangular pentagon?

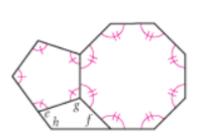
 An equiangular hexagon?
- 3. How many sides does a regular polygon have if each exterior angle measures 24°?

4. How many sides does a polygon have if the sum of its interior angle measures is 7380°?

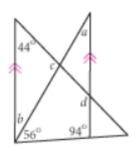
In Exercises 5-10, use your new conjectures to calculate the measure of each lettered angle.

5. 6. 7. h

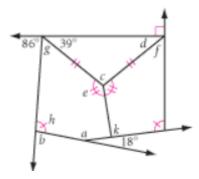
8.



9.

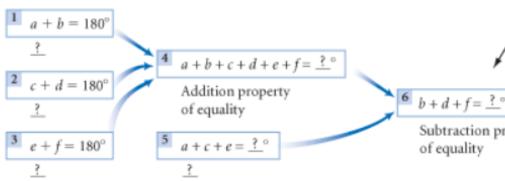


10.



11. Developing Proof Complete this flowchart proof of the Exterior Angle Sum Conjecture for a triangle.

Flowchart Proof



Subtraction property

12. Is there a maximum number of obtuse exterior angles that any polygon can have? If so, what is the maximum? If not, why not? Is there a minimum number of acute interior angles that any polygon must have? If so, what is the minimum? If not, why not? (h)