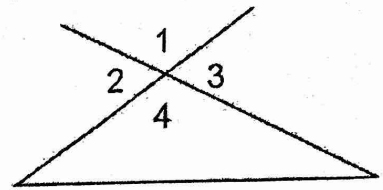


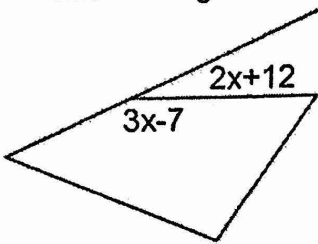
Day 01 ~ Interior and Exterior Angles

1. Which of the numbered angle(s) in the diagram are interior angle(s)?



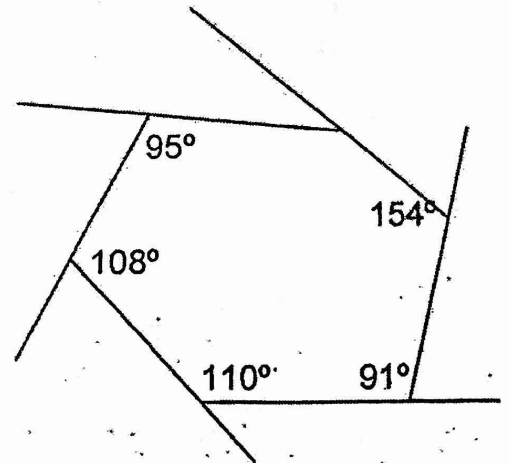
2. Which angle(s) are exterior angle(s)?

3. Write & solve an equation to find the value of x , then find the exact degree measure of the exterior angle.

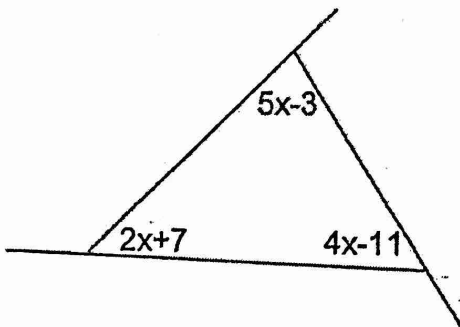


4. Label each exterior angle in the diagram, and find its degree measure.

5. What is the sum of the measures of the exterior angles?



6. Write & solve an equation to find the value of x , then find the measures of all interior AND exterior angles.



7. What is the sum of the measures of the interior angles in a regular dodecagon?

8. What is the measure of each interior angle?

9. What is the measure of each exterior angle?

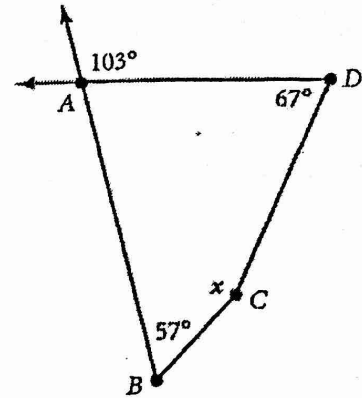
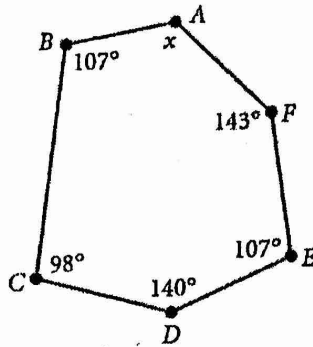
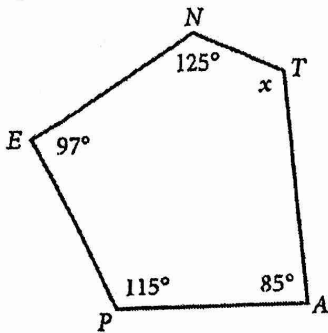
10. What is the sum of the exterior angles?

In Exercises 1–3, find the indicated angle measures, x .

1. _____

2. _____

3. _____



For each polygon, determine the measure of an interior angle and the measure of an exterior angle.

4. a regular octagon _____

5. a regular decagon _____

For Exercises 6–7, an interior angle measure of a regular polygon is given. Find n , the number of sides of the polygon.

6. 140° _____

7. 156° _____

For Exercises 8–9, an exterior angle measure of a regular polygon is given. Find n , the number of sides of the polygon.

8. 30° _____

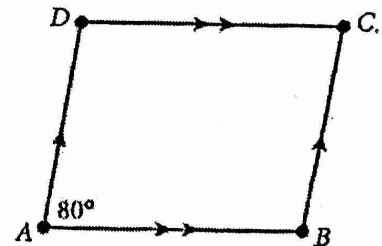
9. 20° _____

For Exercises 10–12, use the figure at the right to find the indicated measures.

10. $m\angle D$ _____

11. $m\angle C$ _____

12. $m\angle B$ _____



A regular polygon has an exterior angle measure of $(x + 3)^\circ$ and an interior angle measure of $(13x - 33)^\circ$.

13. Find the measure of each angle. _____

14. How many sides does this polygon have? _____