

GE 12.0* Students find and use measures of sides and of interior and exterior angles of triangles and polygons to classify figures and solve problems.

For questions 1 through 6, calculate the following for each regular polygon described below:

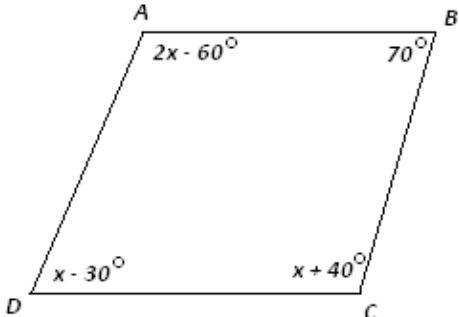
- The sum of the interior angles
- The measure of each interior angle
- The measure of each exterior angle

1. An equilateral triangle: a. b. c.	2. A square: a. b. c.
3. A regular pentagon: a. b. c.	4. A regular hexagon: a. b. c.
5. A regular decagon: a. b. c.	6. A regular 15-sided figure: a. b. c.

7. A regular polygon has interior angles that measure 150° each. How many sides does the polygon have?	8. A nonagon has nine sides. What are the measures of each exterior angle of a regular nonagon?
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9. Three of the interior angles in a pentagon measure 100° each. If the other two angles are congruent, what are the measures of each of the remaining angles?

10.



ABCD is a quadrilateral. What is the measure of x ?