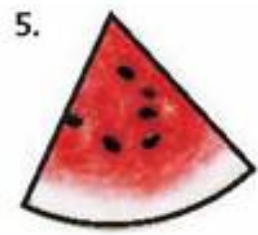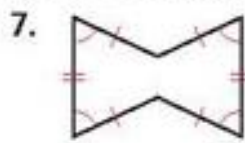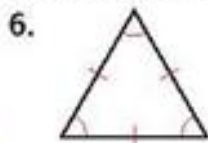**Tell whether each outlined shape is a polygon. If it is a polygon, name it by the number of its sides.**

2.

3.

4.

5.

Tell whether each polygon is regular or irregular. Tell whether it is concave or convex.
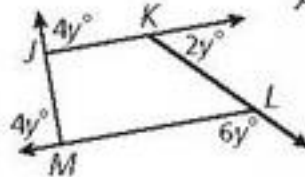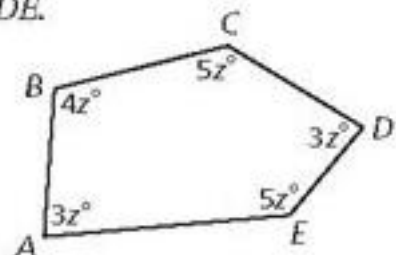
6.

7.

8.

9. Find the measure of each interior angle of pentagon *ABCDE*.

10. Find the measure of each interior angle of a regular dodecagon.
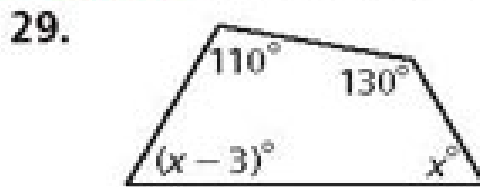
11. Find the sum of the interior angle measures of a convex 20-gon.

12. Find the value of *y* in polygon *JKLM*.

13. Find the measure of each exterior angle of a regular pentagon.

Diagram labels: C, B $4z°$, $5z°$, $3z°$ D, $3z°$, $5z°$ E, A, R

Polygon JKLM labels: $4y°$ J, K, $2y°$, L, $4y°$, $6y°$, M

Algebra Find the value of *x* i

29.

$110°$ $130°$ $(x-3)°$ $x°$

Name the convex polygon whose interior angle measures have each given sum.

==35. 540°==   36. 900°   37. 1800°   38. 2520°

Multi-Step An exterior angle measure of a regular polygon is given. Find the number of its sides and the measure of each interior angle.

==39. 120°==   40. 72°   41. 36°   42. 24°