EXTERIOR ANGLES OF POLYGONS

EXTERIOR ANGLE:

POLYGONS

POLYGON:

of a polygon formed by a pair of

or		rotation.	
Polygons are named by	/ their	TW ent to serve	_ in a

The segments that connect the nonconsecutive vertices of a polygon are called



A 3-sided polygon is called a ______. A 4-sided polygon is called a ______. A 5-sided polygon is called a ______. A 6-sided polygon is called a ______. A 7-sided polygon is called a ______. An 8-sided polygon is called a ______. A 9-sided polygon is called a ______. A 10-sided polygon is called a ______. An 11-sided polygon is called a ______. A 12-sided polygon is called a ______.

Auligen Saturdar Angle State Theorem: The 2000 of the measures of fee EXTRADOR accrets of a context polygan with extent one crode of each tensor (a).

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EXAMPLE. 34 Find the measury of each of the exterior ungles of a regular underspon.

INTERIOR ANGLES OF POLYGONS

An interior angle of a polygon is an angle on the ______ of a polygon formed by a pair of ______ sides.

Polygon Interior Angle Sum Theorem: The sum of the measures of the *INTERIOR* angles of a convex polygon with n sides is:

EXAMPLE 1: Find the sum of the interior angles of a decagon.

REGULAR POLYGON:

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An IRREGULAR polygon is a polygon that is not ______ or _____.

Corollary: The measure of each interior angle of a regular polygon with n sides is:

EXAMPLE 2: Find the measure of *each* of the interior angles of a regular dodecagon.

EXTERIOR ANGLES OF POLYGONS

EXTERIOR ANGLE:



EXAMPLE 1: For each of the following polygons, draw the exterior angles.



Polygon Exterior Angle Sum Theorem: The sum of the measures of the *EXTERIOR* angles of a convex polygon with n sides, one angle at each vertex, is:

EXAMPLE 2: Find the sum of the exterior angles of a octagon.

Corollary: The measure of each exterior angle of a regular polygon with n sides is:

EXAMPLE 3: Find the measure of *each* of the exterior angles of a regular undecagon.