Chapter 1 Basics of Geometry



- 1.1 Points, Lines and Planes
- 1.2 Measuring and Constructing Segments
- 1.3 Using Midpoint and Distance Formulas
- 1.4 Perimeter and Area in the Coordinate Plane
- 1.5 Measuring and Constructing Angles
- 1.6 Describing Pairs of Angles

Polygon

Properties:

- closed figure
- planar
- 3 or more sides
- sides are segments (no curves)



Polygon

Number of sides	Type of polygon
3	Triangle
4	Quadrilateral
5	Pentagon
6	Hexagon
7	Heptagon
8	Octagon
9	Nonagon
10	Decagon
12	Dodecagon
n	<i>n</i> -gon



Convex Polygon

No lines containing sides go through the interior of the polygon.



Concave Polygon

At least one line containing a side goes through the interior of the polygon.



Classify these polygons

- type of polygon
- convex or concave









4)

Perimeter and Area



Calculate the Perimeter and Area



Calculate the Perimeter and Area

Quadrilateral EFGH E(-3, 6), F(-7, 3), G(-1, -5), H(3, -2)

