

Honors Geometry

Notes Section 1.6 Classify Polygons

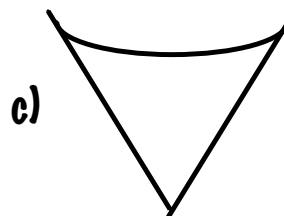
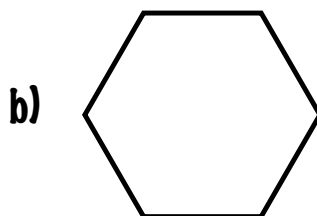
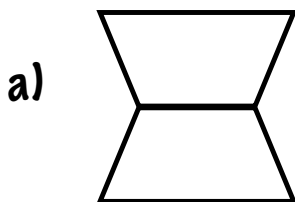
VOCABULARY

Polygon:	a closed sided figure
Side:	line segment of a polygon
Vertex:	common endpoint of 2 sides of a polygon
Convex:	if NO line that contains a sided contains a point in the interior of the polygon.
Concave:	if a line that contains a sided contains a point in the interior of the polygon.
n-gon:	a polygon with 1 1 or 1 3 or more sides
equilateral:	a polygon with all sides congruent
equiangular:	a polygon with all angles congruent
regular:	a polygon with all sides & all angles congruent

# of sides	Type of Polygon
3	Triangle
4	Quadrilateral
5	Pentagon
6	Hexagon
7	Heptagon
8	Octagon
9	Nonagon
10	Decagon
12	Dodecagon
n	n-gon

Example 1

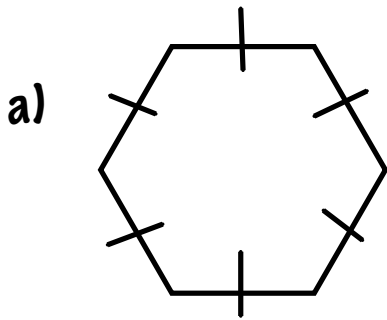
Tell whether the figure is a polygon and whether it is convex or concave.

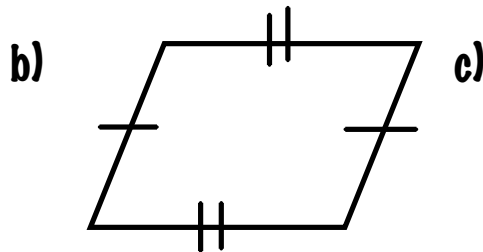


d)

Example 2

Classify by the number of sides. Tell whether the polygon is equilateral, equiangular or regular.





**Example 3**

Find the length of the side.

