

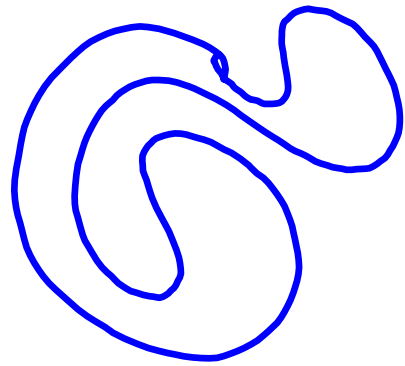
5.5. Classifying Polygons.

Feb. 07, 2007

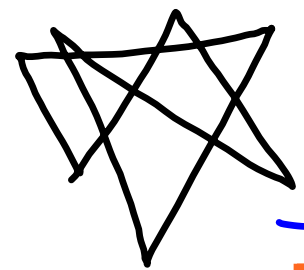
Simple Closed Curves:



Straighty
Lines
Polygons



also a
Polygon



Not

Is this a Polygon?



Not

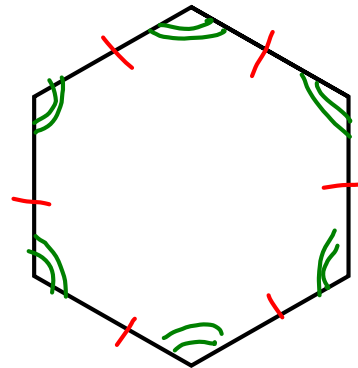
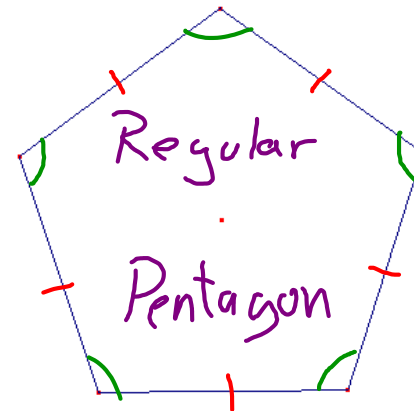
# of Sides	Name
3	Triangle
4	Quadrilateral
5	Pentagon
6	hexagon
7	heptagon
8	octagon
9	nonagon
10	Decagon
12	dodecagon

Regular Polygons: A polygon
with All Sides congruent
(equal, same length) & All angles
Congruent

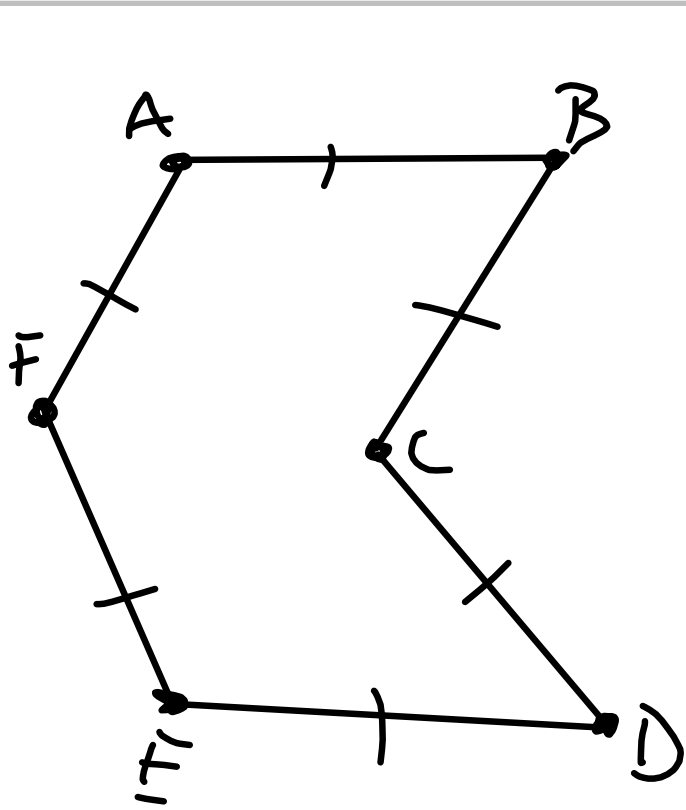


| \Rightarrow congruent
for length of
Sides

∩ \Rightarrow congruent
for Angles

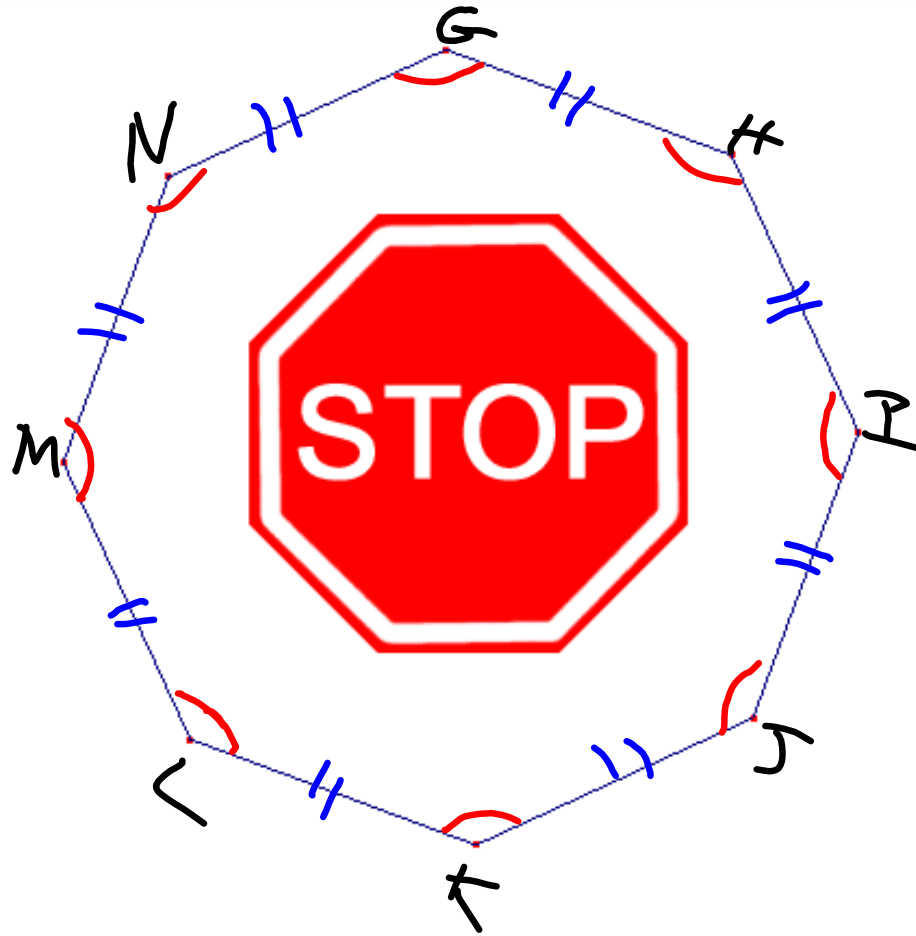


Regular
hexagon



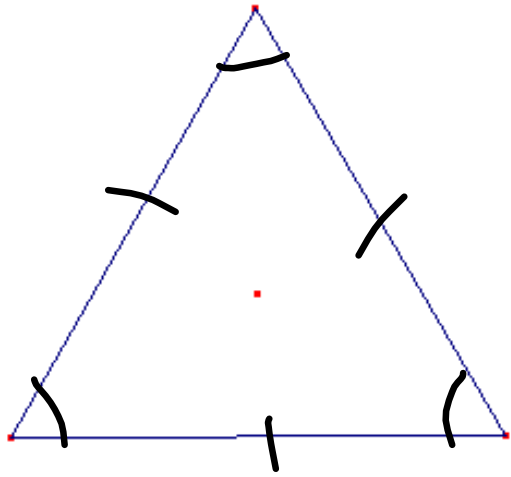
hexagon

only



Regular
Octagon

Triangles by their Sides

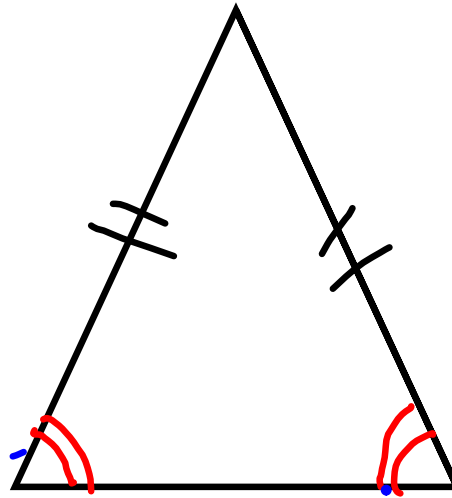


Regular Triangle

Equilateral

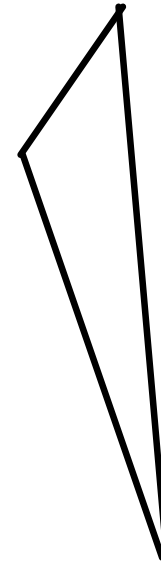
All 3 sides \cong

$\cong \Rightarrow$ congruent



Isosceles

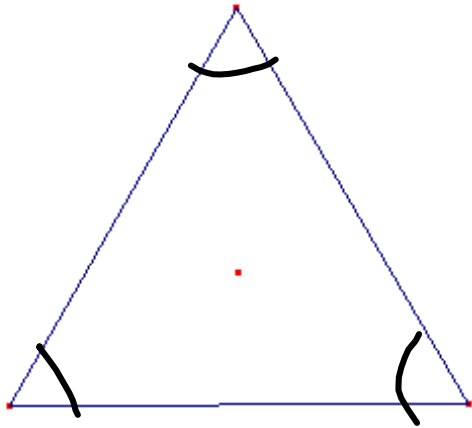
2 Sides \cong



Scalene

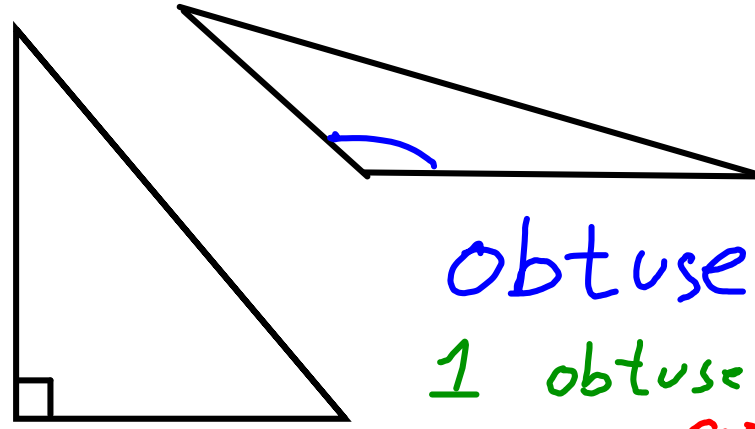
No Sides \cong

Triangles By their angles:



Equilateral

All \angle 's \cong

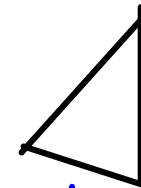


Right Δ

1 90° angle

obtuse

1 obtuse \angle
over 90°



acute

All \angle 's under 90°

—

O.T.L.

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