

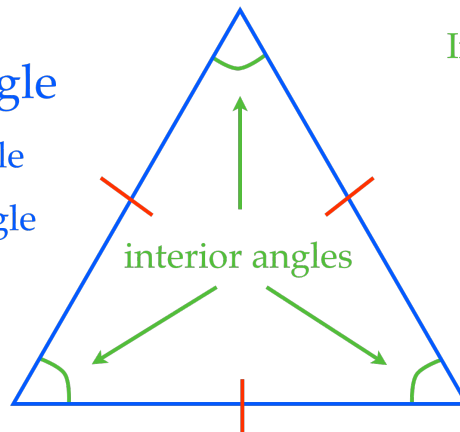
## Regular Polygon

a polygon with equal sides and equal interior angles

### Regular Triangle

Equilateral Triangle

Equiangular Triangle

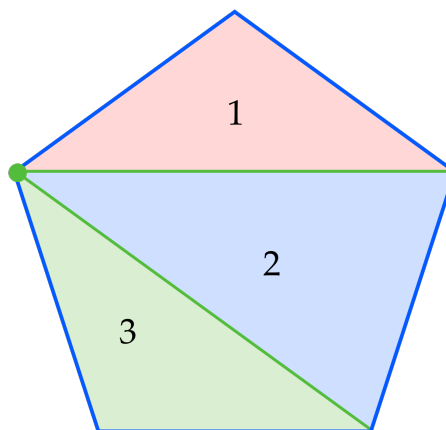


Interior Angles of Triangles  
add to  $180^\circ$ .

## Regular Polygon

a polygon with equal sides and equal interior angles

### Pentagon



Interior Angles of Pentagon  
add to...

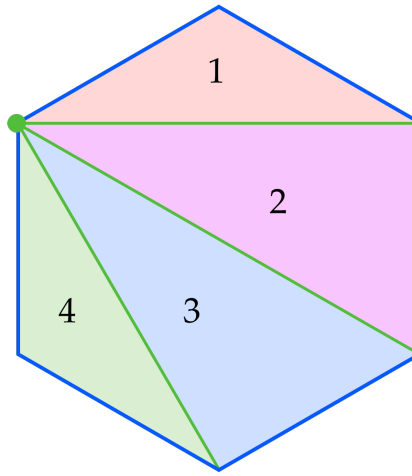
$$180^\circ \times 3 = 540^\circ$$

5 Interior Angles in Pentagon

## Regular Polygon

a polygon with equal sides and equal interior angles

Hexagon



Interior Angles of Hexagon  
add to...

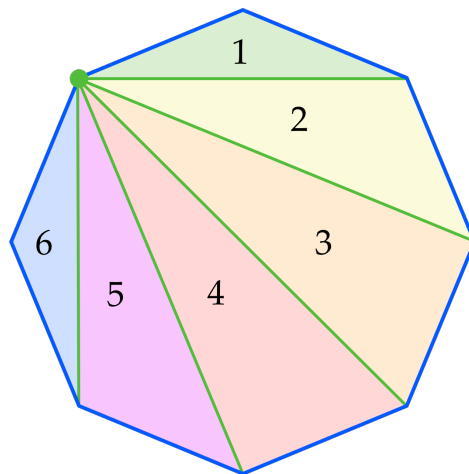
$$180^\circ \times 4 = 720^\circ$$

6 Interior Angles in Hexagon

## Regular Polygon

a polygon with equal sides and equal interior angles

Octagon



Interior Angles of Octagon  
add to...

$$180^\circ \times 6 = 1080^\circ$$

8 Interior Angles in Octagon

## Regular Polygon

a polygon with equal sides and equal interior angles

$n$ -gon

Interior Angles of  $n$ -gon  
add to...

$$180^\circ \times (n - 2)$$

$n$  Interior Angles in  $n$ -gon

$$\frac{180^\circ \times (n - 2)}{n}$$

12-gon

Interior Angles of 12-gon  
add to...

12 Interior Angles in 12-gon