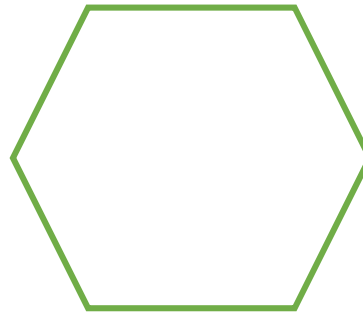
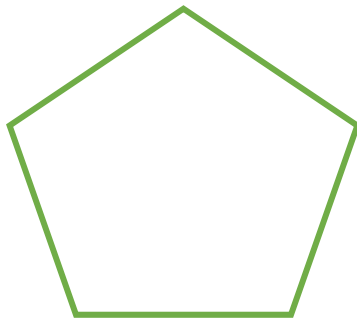
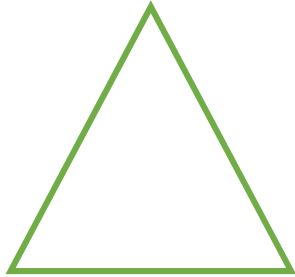


Name: \_\_\_\_\_

Date: \_\_\_\_\_



What if the shape had 10 sides?

How about 20 sides?

$n$  sides?

Definitions	
Regular Polygon	
Convex Polygon	
Non-Convex Polygon	
Exterior Angles	

Polygon	# of sides	Sum of Interior Angles	Sum of Exterior Angles
Triangle			
Square			
Pentagon			
Hexagon			
$n$ -gon			

**Example** Find the sum of the interior angles of a regular pentadecagon (or a polygon with \_\_\_\_\_ sides)

Find the measure of one of the **interior angles**.

Find the measure of one of the **exterior angles**.

Find the sum of the **exterior angles**.

**Example** The measurements of four of the interior angles of a pentagon are  $118^\circ$ ,  $78^\circ$ ,  $100^\circ$  and  $143^\circ$ . What is the measure of the missing angle?