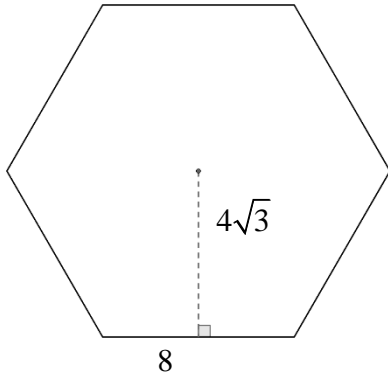


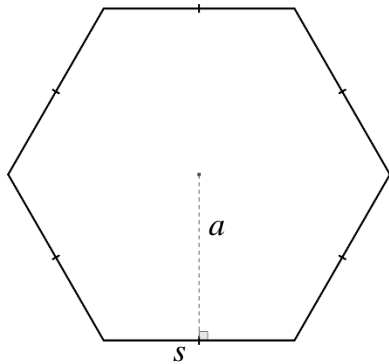
## REGULAR POLYGONS – AREA & PERIMETER: GUIDED NOTES

Use what you know about triangles to find the area of the following regular polygon.

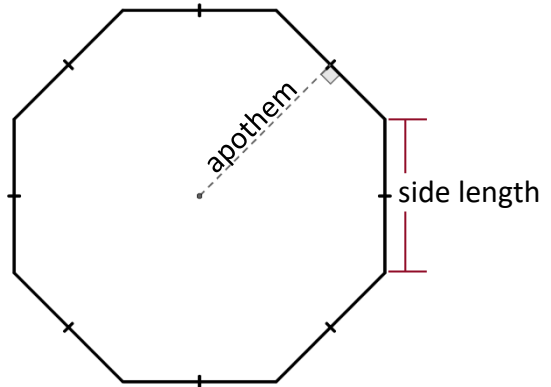
1)



**apothem:** the perpendicular distance from the center of the polygon to any side of the polygon



$a$  = apothem  
 $s$  = side length  
 $n$  = number of sides



**Area of a Regular Polygon:**  $A = \frac{1}{2} \cdot a \cdot n \cdot s$

**Perimeter of a Regular Polygon:**  $P = n \cdot s$

Find the area of the following regular polygon.

2)

