

11.4 Area of Regular Polygons Notes

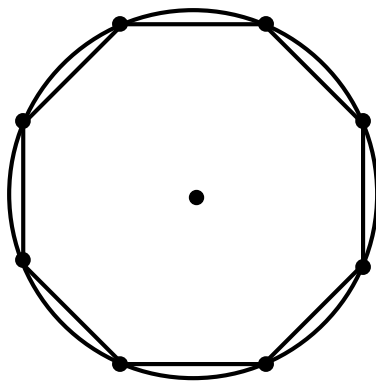
Regular Polygon - \_\_\_\_\_

Examples: \_\_\_\_\_

Center of a Regular Polygon - \_\_\_\_\_

Radius of a Regular Polygon - \_\_\_\_\_

Central Angle of a Regular Polygon - \_\_\_\_\_



To find the measure of the central angle: \_\_\_\_\_

Ex:

<p>Ex1 - find the measure of the central angle of a regular _____.</p>	<p>Ex2 - find the measure of the central angle of an equilateral _____.</p>
<p>Ex3 - find the number of sides of a regular polygon with a central angle measure of _____.</p>	<p>Ex4 - find the number of sides of a regular polygon with a central angle measure of _____.</p>

Apothem of a Regular Polygon - \_\_\_\_\_

Ex1 - Find the length of the apothem in a regular \_\_\_\_\_ with a radius of \_\_\_\_\_.

Ex2 - Find the length of the apothem in an equilateral \_\_\_\_\_ with side length \_\_\_\_\_.

Ex3 - Find the side length of a \_\_\_\_\_ with an apothem length of \_\_\_\_\_.

Formula for Area of a Regular Polygon

Find the area of a regular \_\_\_\_\_ with side length 22ft.

Find the area of a regular \_\_\_\_\_ with side length 32cm.