

Name: _____ Date: _____ Row: _____ Period: _____

NOTES SECTION 11.4: AREAS OF REGULAR POLYGONS

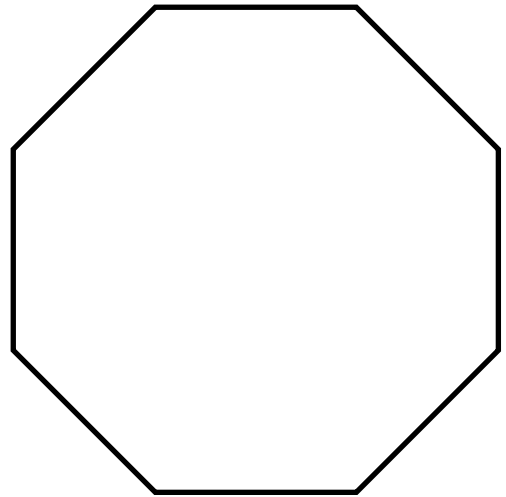
DEFINITIONS

The **center of a regular polygon** is _____

The **radius of a regular polygon** is _____

A **central angle of a regular polygon** is _____

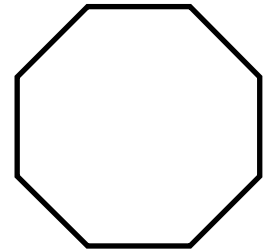
The **apothem of a regular polygon** is _____



THEOREM

1) Find the area of a regular hexagon with apothem _____.

2) Find the area of a regular octagon with side _____ and apothem _____.



3) Find the area of an equilateral triangle with apothem _____.

4) Find the area of a regular hexagon with side _____.

5) A square with diagonal _____.

6) Find the area of a regular pentagon inscribed in a circle of radius _____.