

CONCEPT: The SUM of interior angles of any Polygon may be found by $(n - 2) * 180^\circ$.

CONCEPT: The SUM of exterior angles of any Polygon is exactly 360° .

1.) Find each for a polygon with 15 sides:

Interior angle **sum**: _____

Exterior angle **sum**: _____

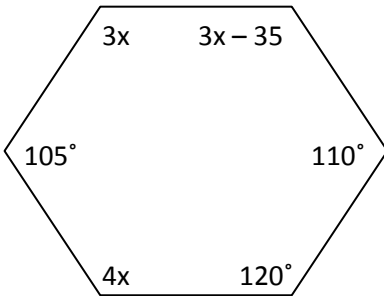
2.) Find each for a polygon with 18 sides:

Each interior angle measure: _____

Each exterior angle measure: _____

Find the value of x.

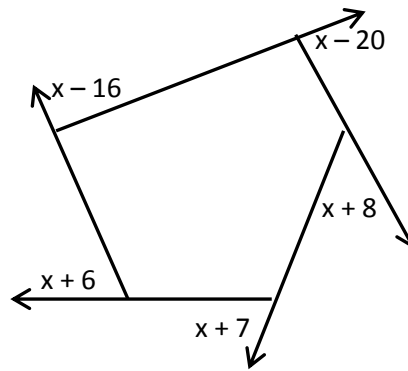
3.) Find the value of x.



x = _____

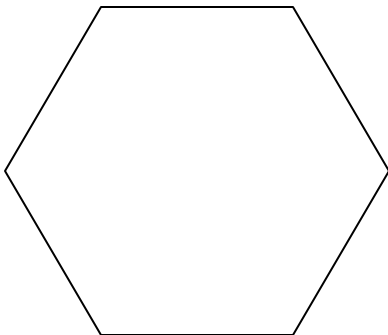
Find the value of x.

4.) Find the value of x.

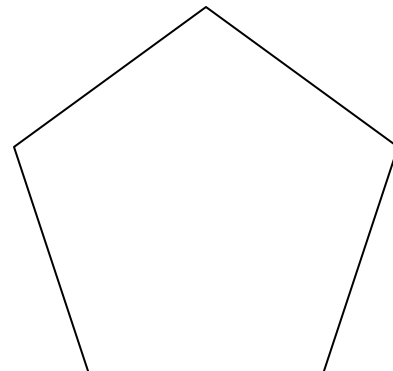


x = _____

5.) Draw in one **apothem** for the Hexagon below.



6.) Draw in one **radius** for the pentagon below.



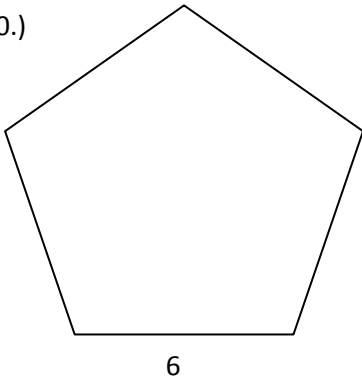
7.) What is the correct interior angle sum for a pentagon?

8.) Which **regular polygon** below has a single exterior angle measure of 45° ?

9.) The Three (3) interior angles of any triangle must add up to:

Find the area of each REGULAR POLYGON. An enlarged-view Triangle is provided to help SHOW WORK!

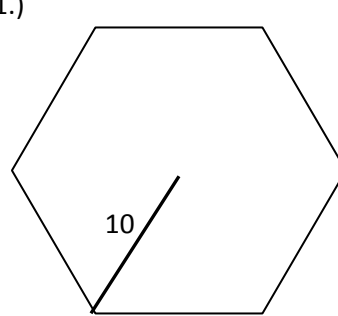
10.)



$A_{\text{triangle}} =$

Total Area =

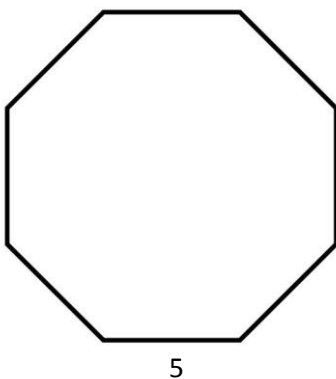
11.)



$A_{\text{triangle}} =$

Total Area =

12.)



$A_{\text{triangle}} =$

Total Area =

