

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° .

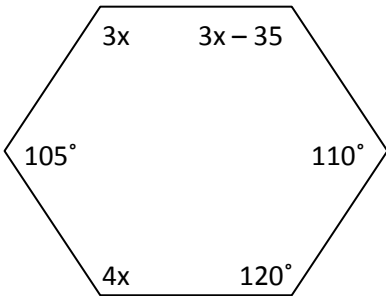
1.) Find each for a polygon with 13 sides:

Interior angle **sum**: _____

Exterior angle **sum**: _____

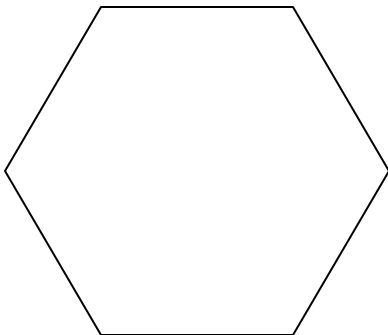
Find the value of x.

3.) Find the value of x.



x = _____

5.) Draw in a **radius** for the Hexagon below.



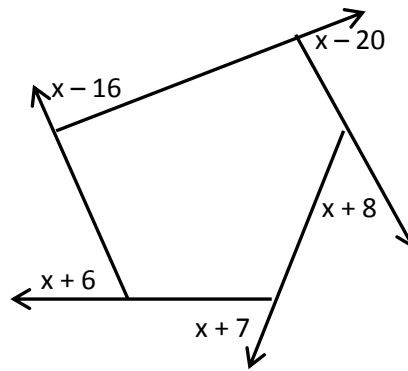
2.) Find each for a polygon with 22 sides:

Each interior angle measure: _____

Each exterior angle measure: _____

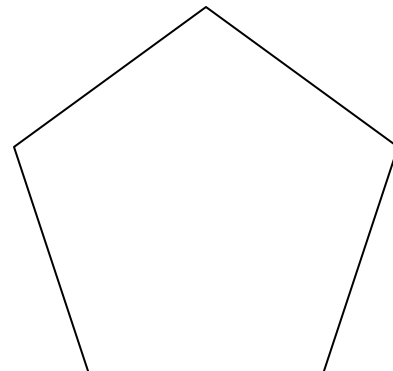
Find the value of x.

4.) Find the value of x.



x = _____

6.) Draw in an **apothem** for the pentagon below.



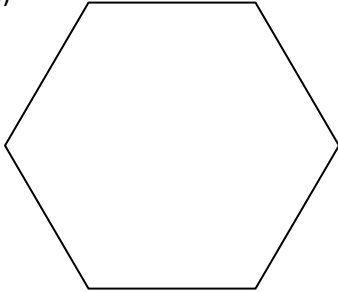
7.) What is the correct interior angle sum for an octagon?

8.) Which **regular polygon** has a single interior angle measure of 120° ?

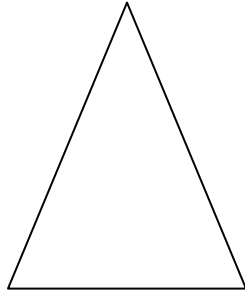
9.) The Three (3) interior angles of any triangle must add up to:

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

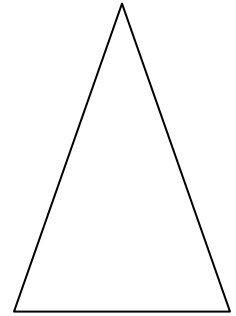
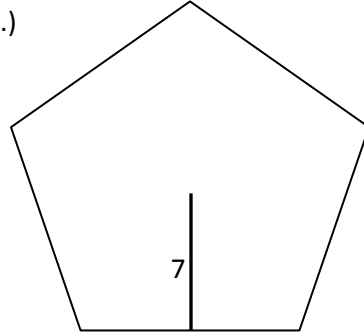
10.)



14



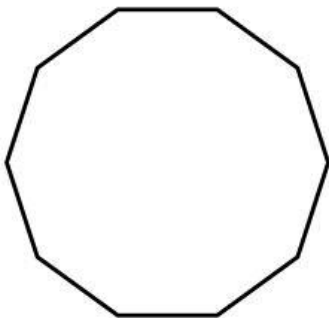
11.)



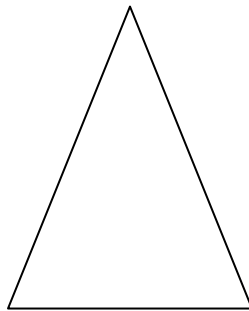
$$A = \frac{1}{2} * \frac{\quad}{b} * \frac{\quad}{h} = \underline{\quad} \quad T.A. = \underline{\quad}$$

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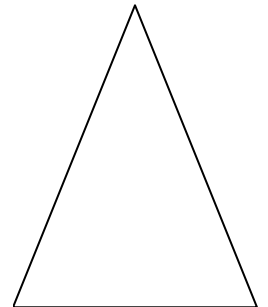
12.)



5



13.)



$$A = \frac{1}{2} * \frac{\quad}{b} * \frac{\quad}{h} = \underline{\quad} \quad T.A. = \underline{\quad}$$

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14.) Find the AREA of a regular Icosagon (20-sides) with an apothem measuring 8 cm.