

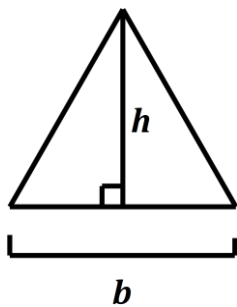
GEOMETRY – Unit 11 AREA UNIT Name: _____

Per: _____

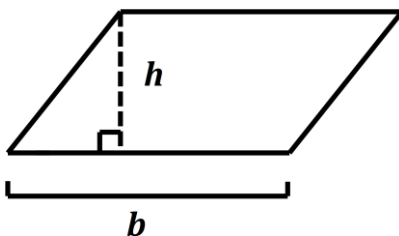
Day I – Area Review

Objectives: SWBAT find the area of various shapes

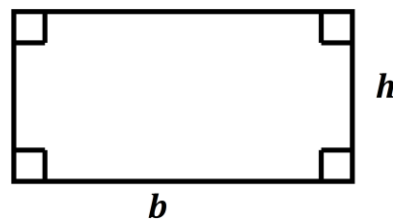
Triangle



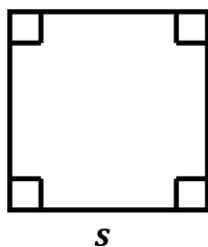
Parallelogram



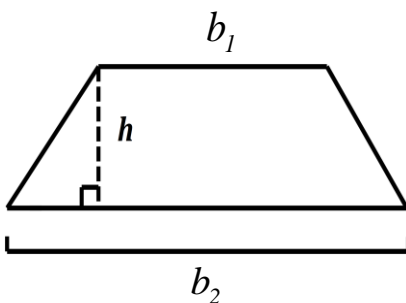
Rectangle



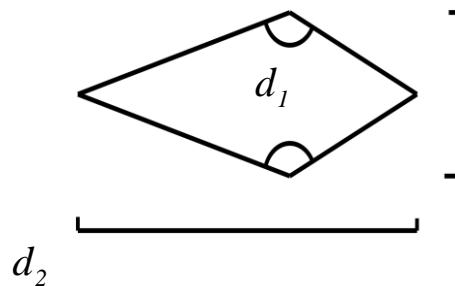
Square



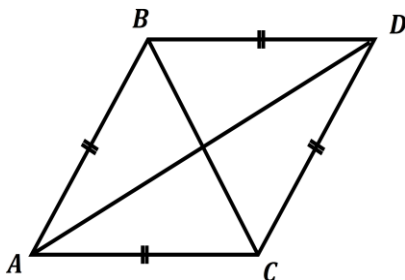
Trapezoid



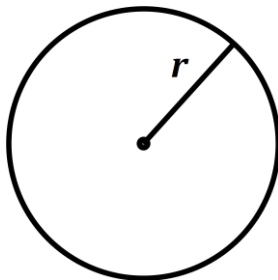
Kite



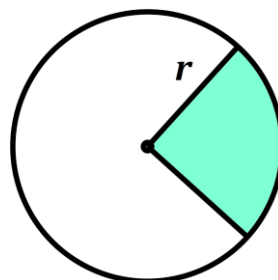
Rhombus



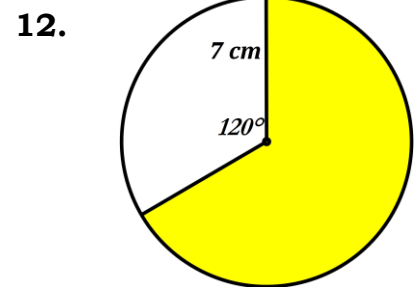
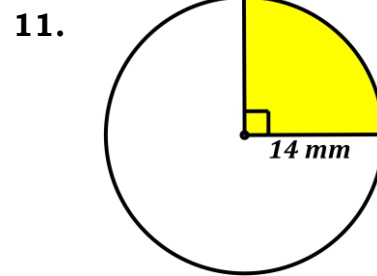
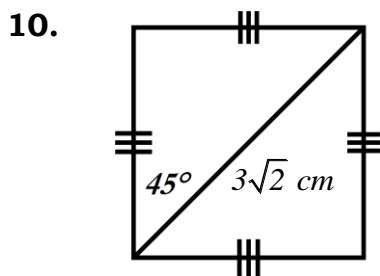
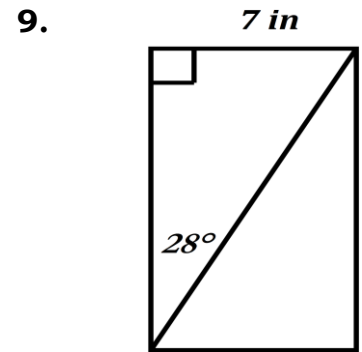
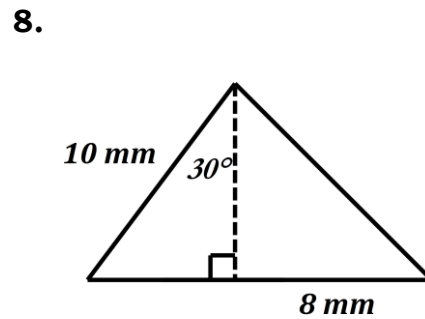
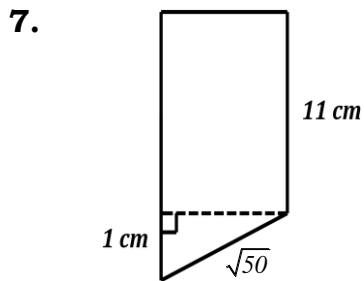
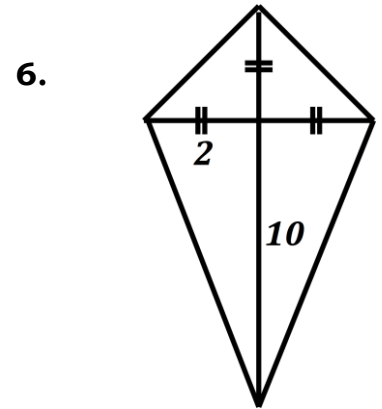
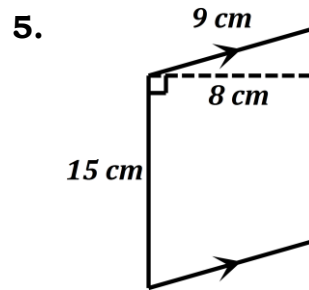
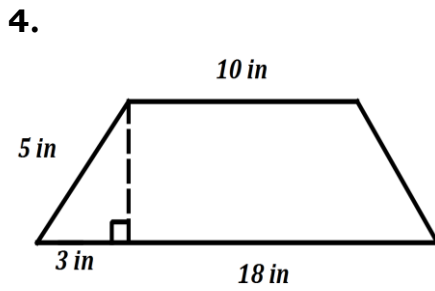
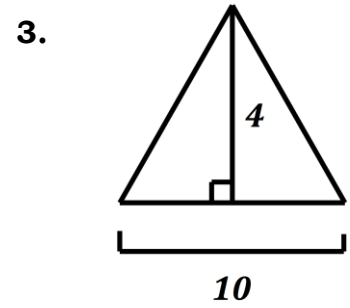
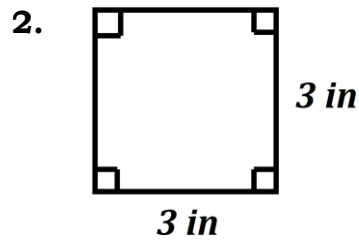
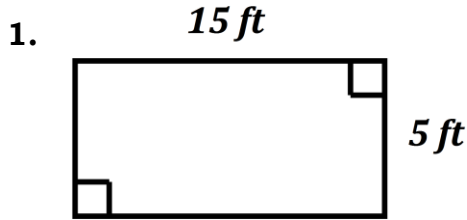
Circle



Sector



Find the area of the following shapes.



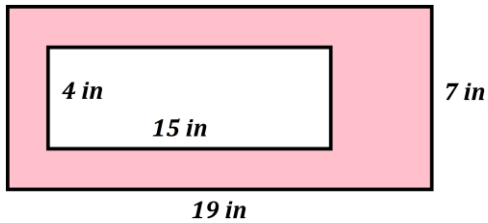
Day II – Area of Shaded Figures

Objectives: SWBAT find the area of various shapes and shaded regions

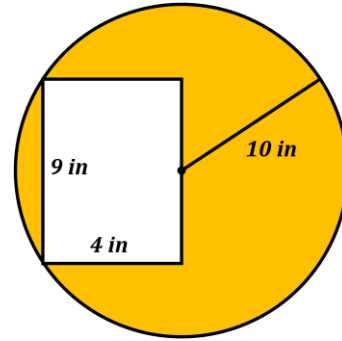
Area of a Shaded Figure:

Examples: Find the area of the shaded area.

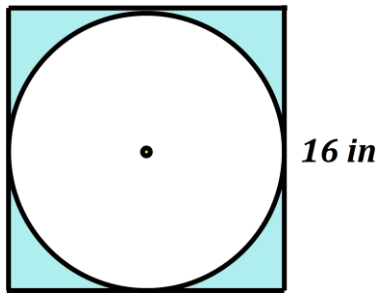
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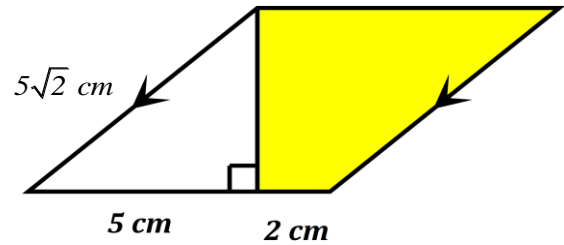
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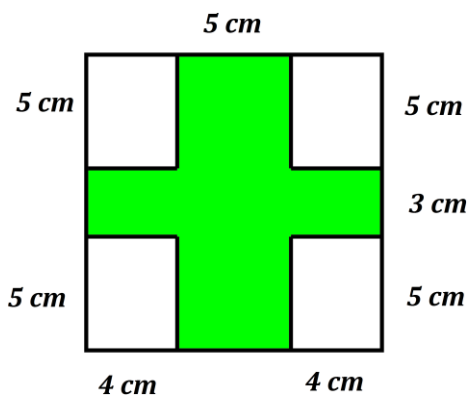
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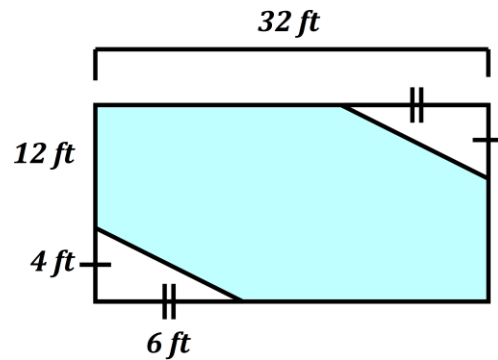
4.



5.



6.



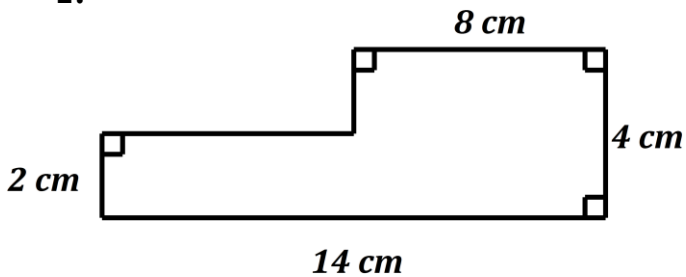
Day III – Area of Compound Figures

Objectives: SWBAT find the area of various shapes

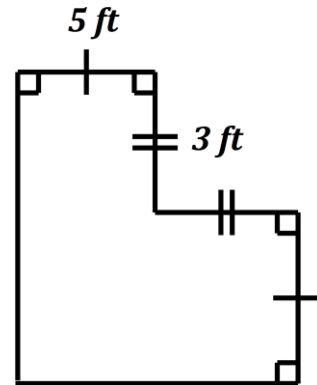
Area of a Compound Figures or Unfamiliar Shapes:

Examples: Find the area of the given shapes.

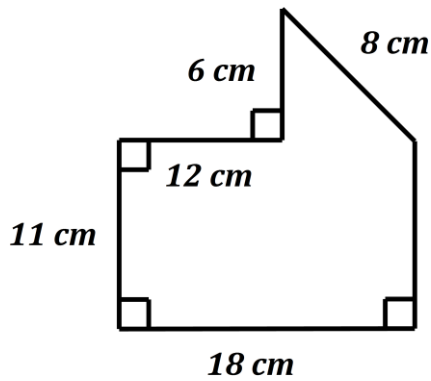
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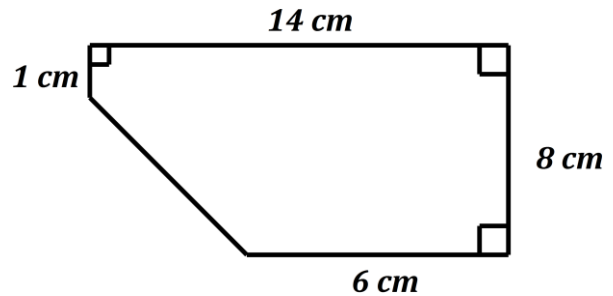
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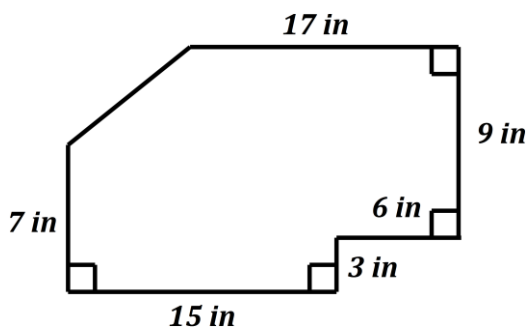
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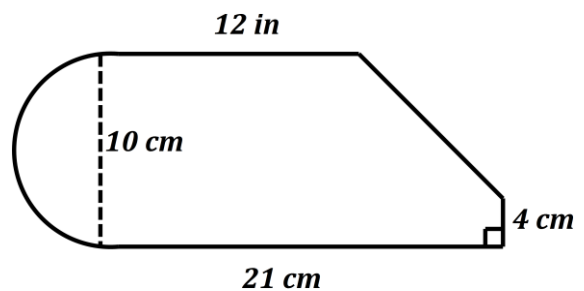
4.



5.



6.



Day IV – Area of Regular Polygons: Part 1

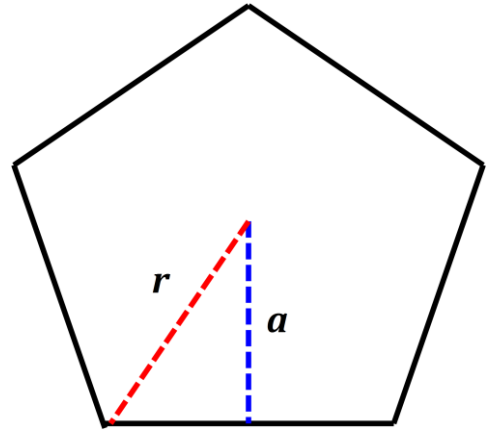
Objectives: SWBAT find the area of regular polygons

Regular Polygons:

Apothem:

Radius:

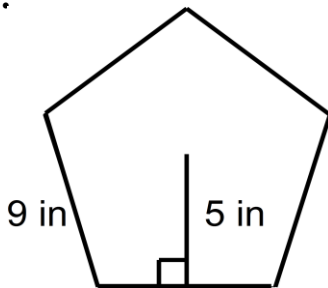
Perimeter:



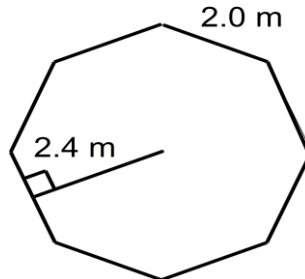
Area of a Regular Polygon Formula:

Examples: Find the area of the following regular polygons

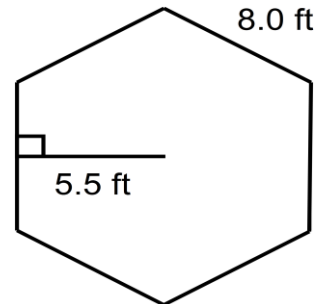
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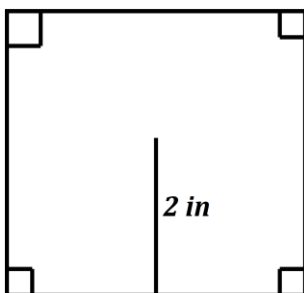
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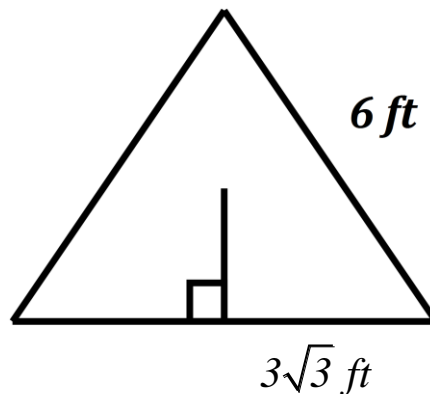
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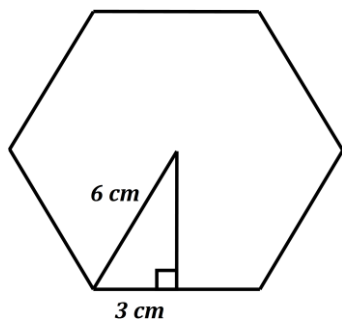
4.



5.



6.



Day V – Area of Regular Polygons – Part 2

Objectives: SWBAT find the area of regular polygons using Special Right Triangles

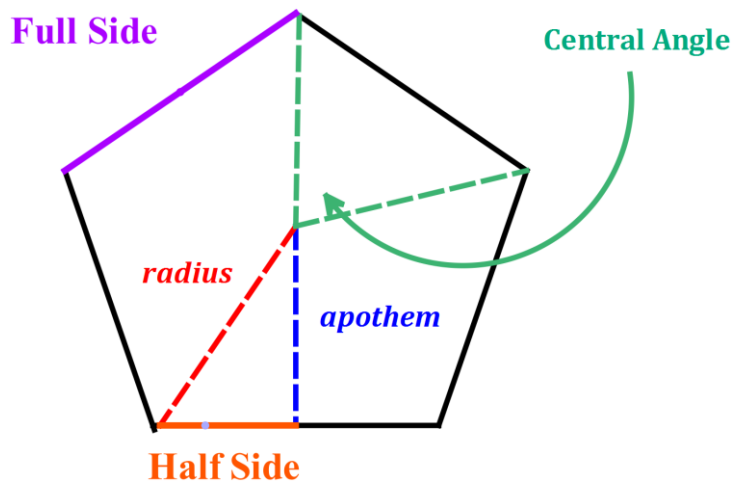
Area of a Regular Polygon Formula:

Central Angle:

Radius:

Side:

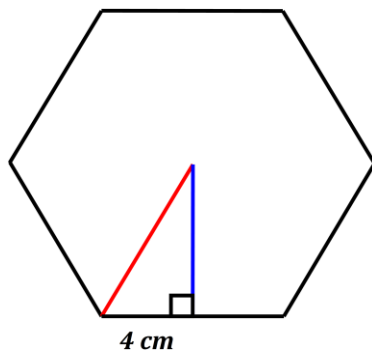
Half Side:



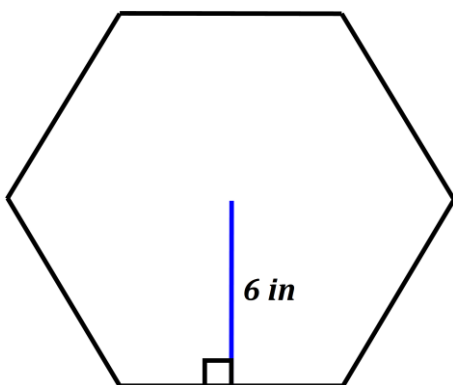
Steps for Finding the Area of a Regular Polygon

Examples: Find the area of the following regular polygons

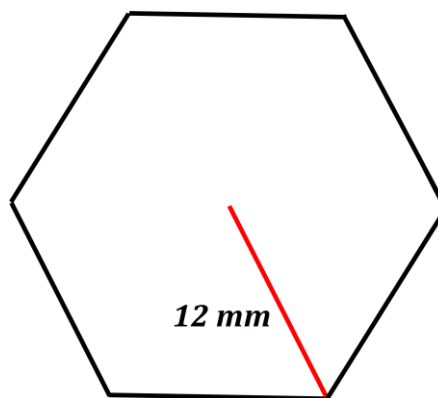
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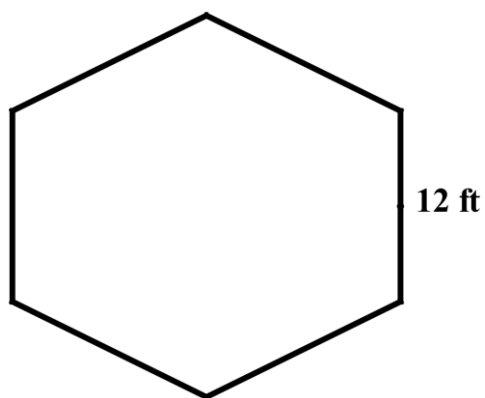
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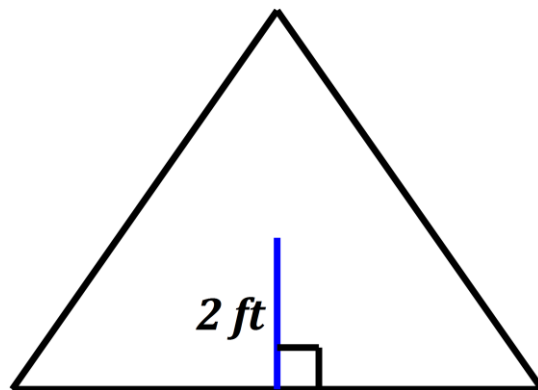
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4.



5.

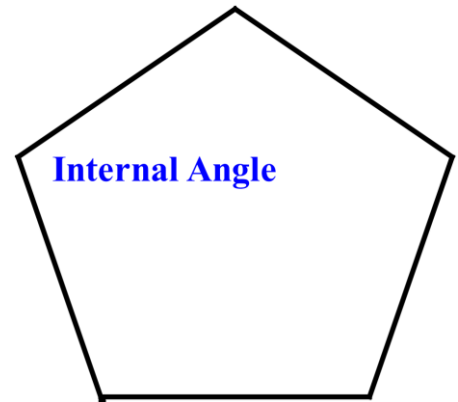


Day VI – Angles of Regular Polygons

Objectives: SWBAT find the area of regular polygons

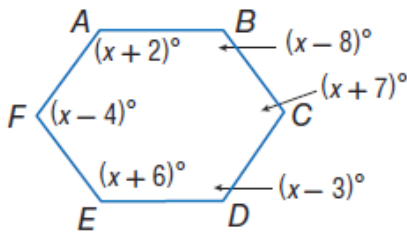
Regular Polygons:

Sum of Internal Angles Formula of a Polygon

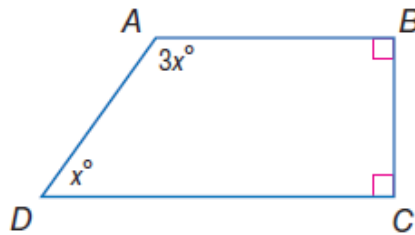


Find the value of x .

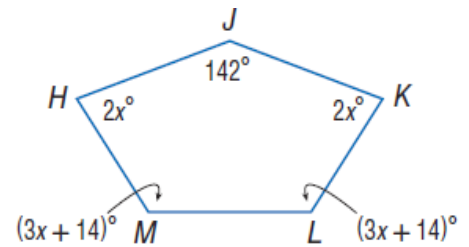
1.



2.



3.



Sum of Internal Angles Formula of a Regular Polygon

Given the following regular polygons, find the sum of the interior angles.

4. Hexagon

5. Nonagon

6. Octagon

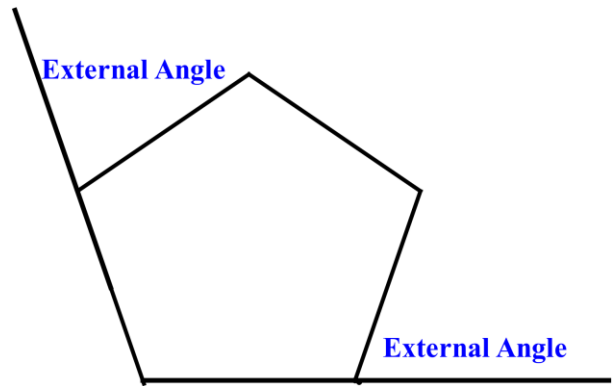
You are given the measure of each interior angle of a regular n -gon. Find the number of sides.

7. 108°

8. 144°

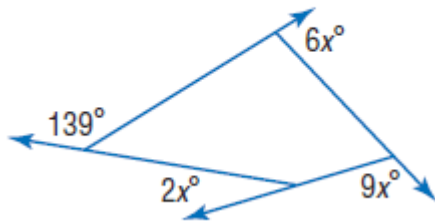
9. 135°

Sum of External Angles Formula of a Regular Polygon

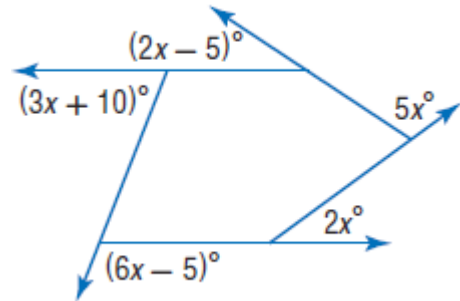


Solve for x .

10.



11.



Given the following regular polygons, find the number of degrees of each exterior angle.

9. 6-gon

10. Pentagon

11. Hexagon