

Learning Objective(s) _____:

**Main Ideas/
Questions**

Triangle
Vocabulary

Notes

Triangle – A _____-sided polygon

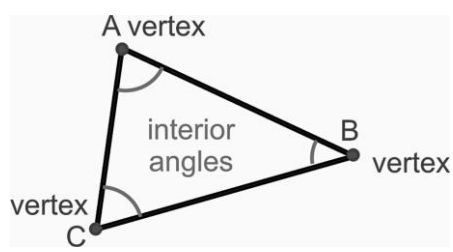
Vertex (Vertices) – The point that connects _____ sides

Adjacent side – Two sides that share a common _____

Opposite side – The side opposite a specified _____

Triangle
Angle/Side
Characteristics

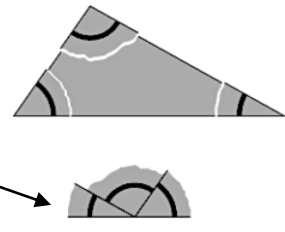
Name a triangle by using a triangle symbol (Δ) and each vertex's letter.



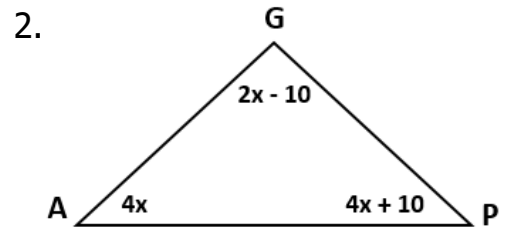
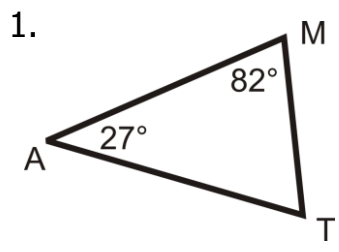
Potential Names:

Triangle Sum Theorem

3 Interior Angles = _____

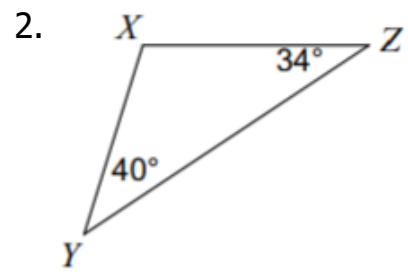
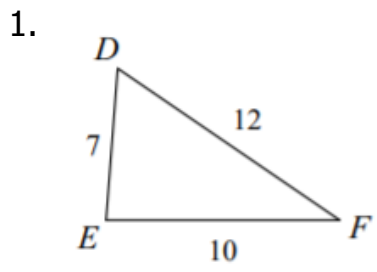


Find the missing angle or variable.



Angle and Side Relationships:
 Smallest angle \rightarrow Smallest side
 Largest angle \rightarrow Largest side

Order the angles or sides in each triangle from smallest to largest.



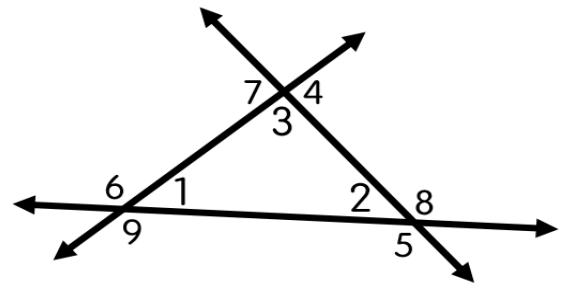
**Main Ideas/
Questions**
Examples

Notes

Triangle Inequality Theorem
The _____ of the lengths of two _____ of a triangle must always be _____ than the length of the third side

Determined if the three numbers can make a triangle.

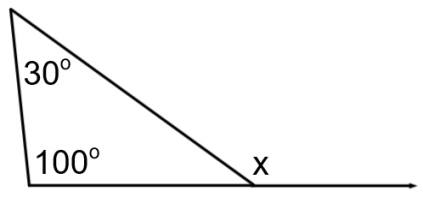
- 1. 2, 3, 7
- 2. 8, 8, 8
- 3. 9, 6, 2



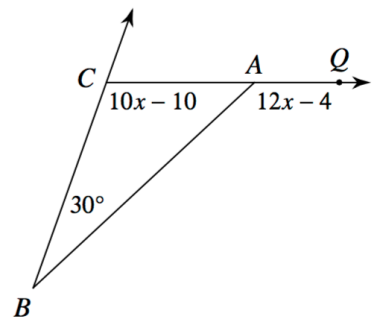
Exterior Angle Theorem

Exterior Angles = Sum of
2 _____
_____ angles

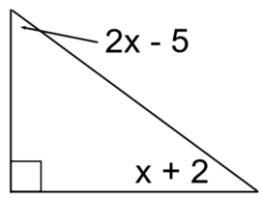
1. Solve for x.



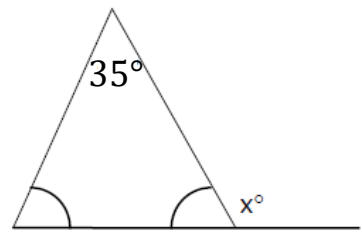
2. Solve for x.



3. Solve for x.



4. Solve for x.



5. Solve for x.

