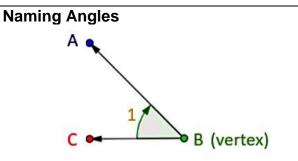
GSE Geometry Geometry Notes	Angles & Triangles Name: Line Vocabulary		Notes _ Block :
Vocabulary:	Picture:	Notation:	
Point- an exact position or location in a given plane			
Line- a set of two points in a plane and the infinite number of points that continue beyond the points.			
Line segment- a line with two end points.			
Ray- is defined by two points, one is an endpoint.			
Parallel lines- two lines that will never intersect.			
Perpendicular lines- two lines that meet at a right angle.			
Angle- is formed where two line segments or rays share an end point.			



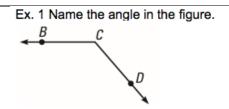
The <u>vertex</u> is the point where two rays meet to from an angle.

Angles can be named in the following ways:

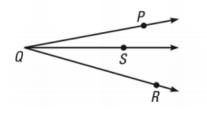
- By three capital letters, with the vertex letter in the middle.

- By one capital letter, this can only be used if it is the only angle it could be.

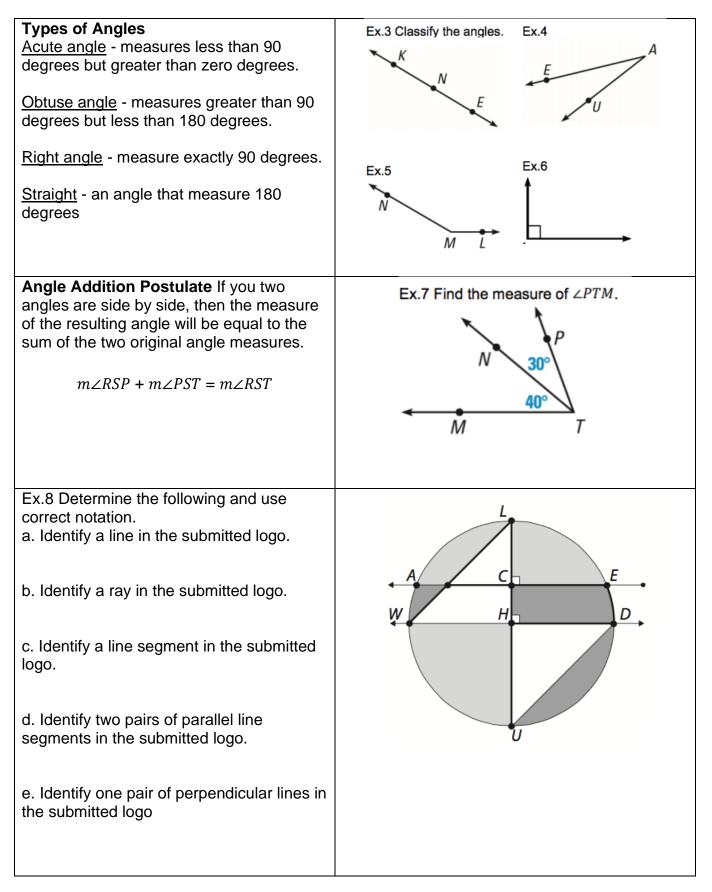
- By the lower case letter or number written in the middle of the angle.

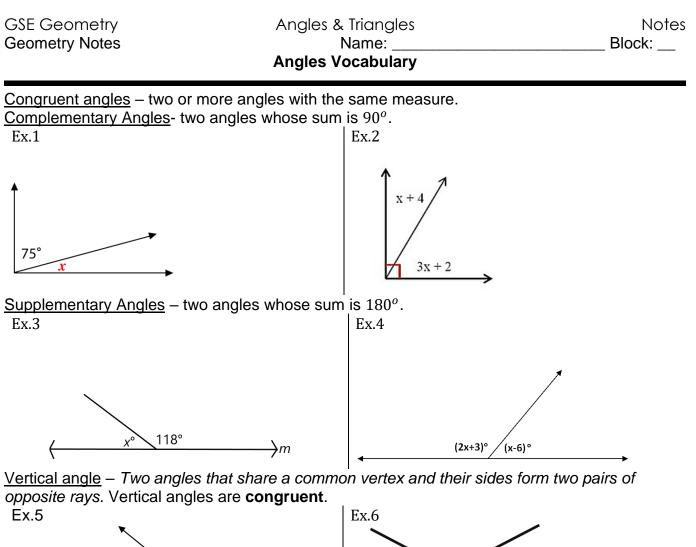


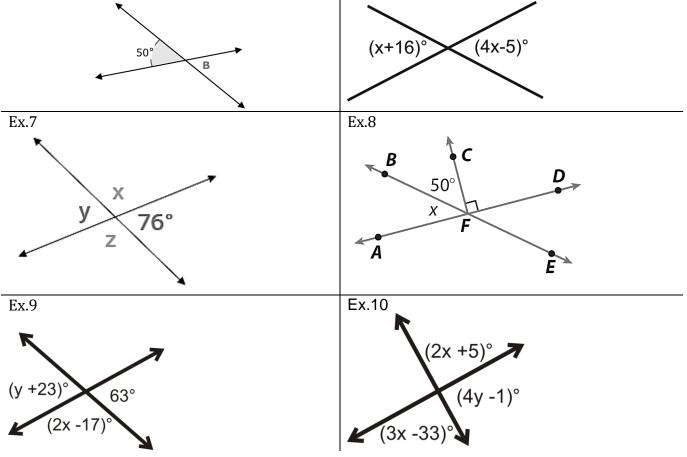


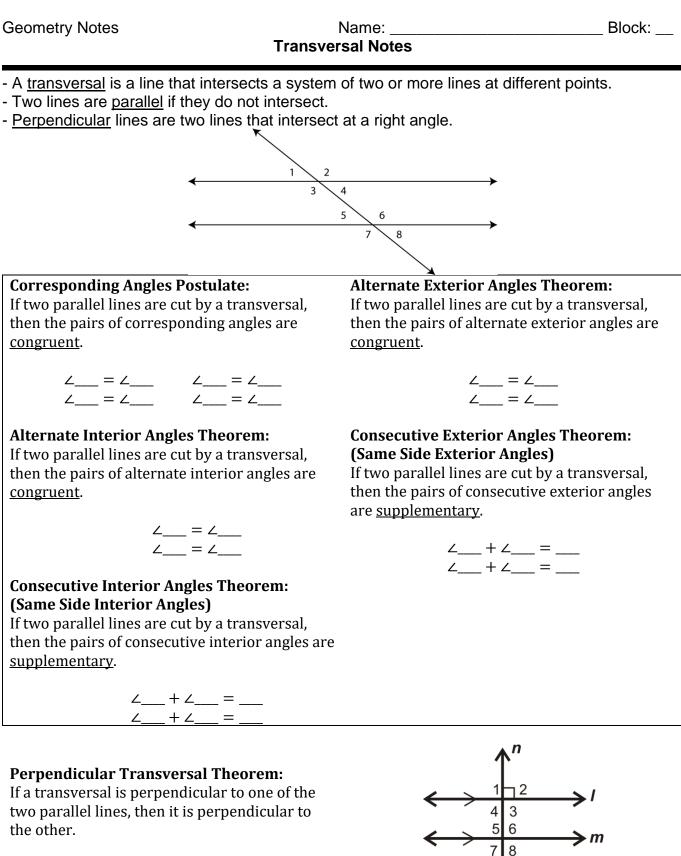


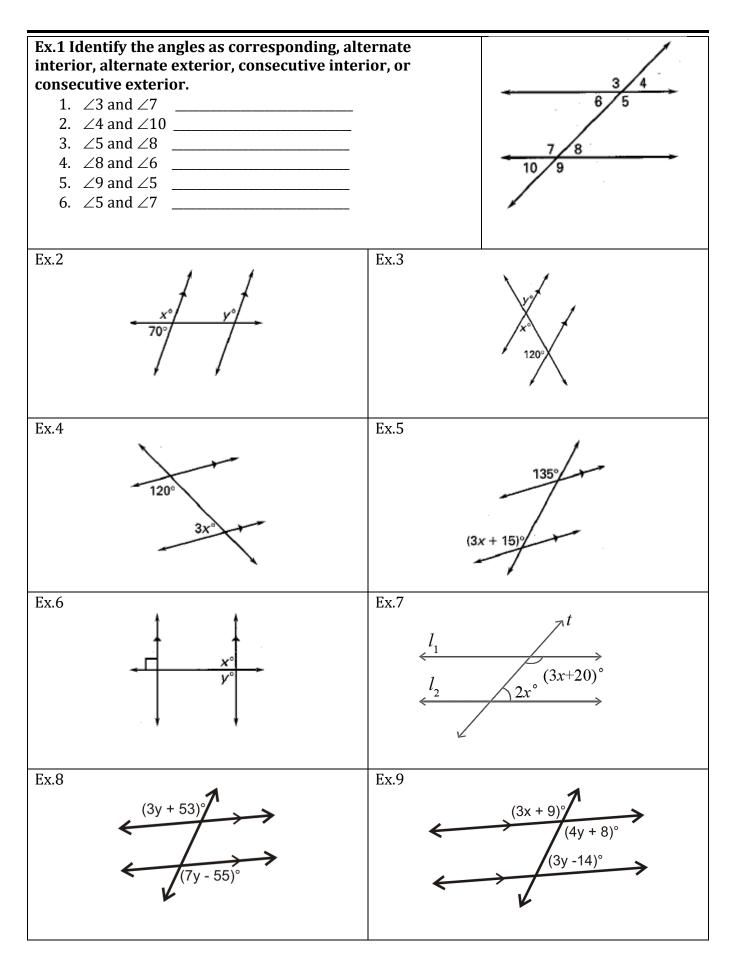
GSE Geometry







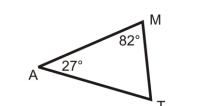


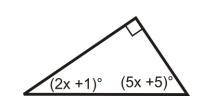


GSE Geometry	Angles & Triangles	Notes		
Geometry Notes	Name:	Block:		
Triangle Notes				

Ex.2

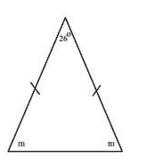
- Triangle Sum Theorem- the sum of the angle measures of a triangle is 180 degrees.
- A scalene triangle has no congruent sides. Ex.1

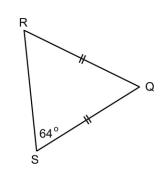




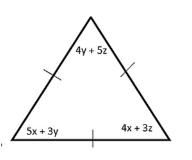
- <u>An isosceles triangle</u> has two congruent angles and two congruent sides. Ex.3 $| F_X \Delta|$

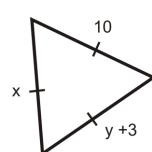






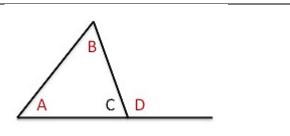
- An equilateral triangle has three congruent sides.
- An equiangular triangle has three congruent angles.
- If a triangle is equilateral then it is also equiangular and vice versa. Ex.6
- Ex.5





- Exterior Angle Theorem - the measure of an exterior angle of a triangle is equal to the sum of the measures of its remote interior angles.

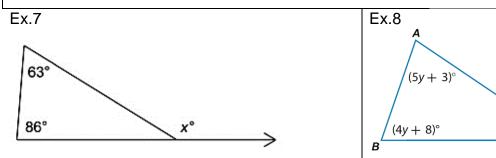
$$\angle A + \angle B = \angle D$$



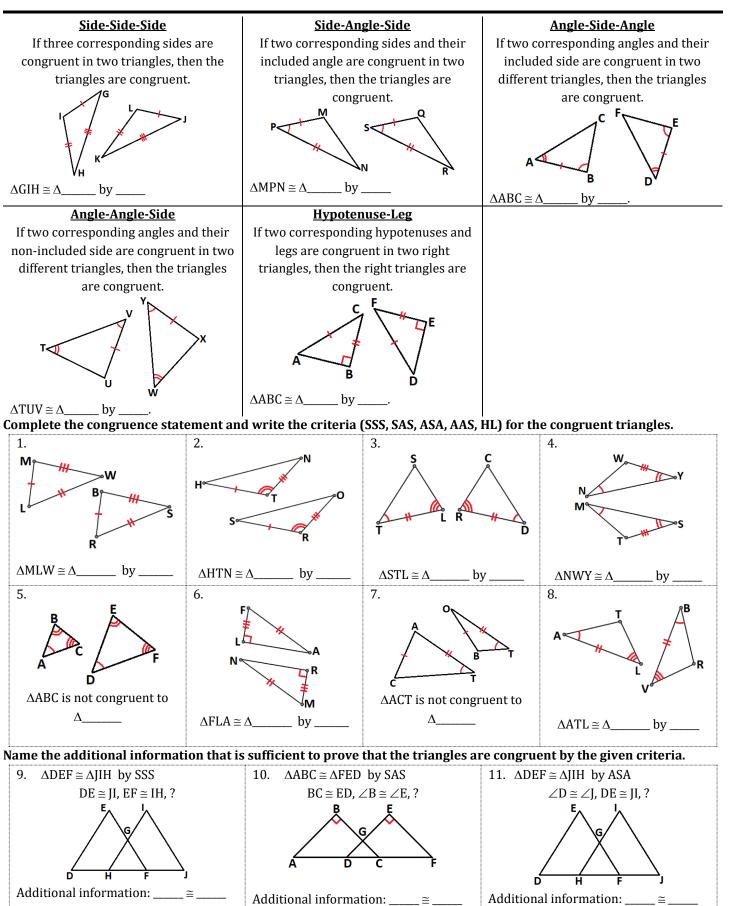
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Angles & Triangles **Criteria for Congruent Triangle**



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- <u>Reflexive property</u>: any quantity is equal to itself.
- <u>Midpoint</u>: a point that divides a segment into two congruent segments.
- Bisect: divide into two equal parts
- If two or more triangles are proven congruent, then all of their corresponding parts are congruent.
- CPCTC: corresponding parts of corresponding triangles are congruent

