







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

