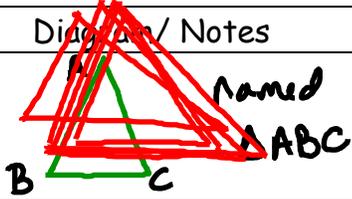
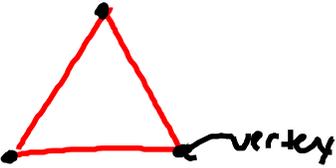
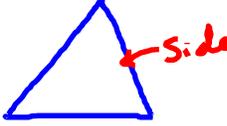
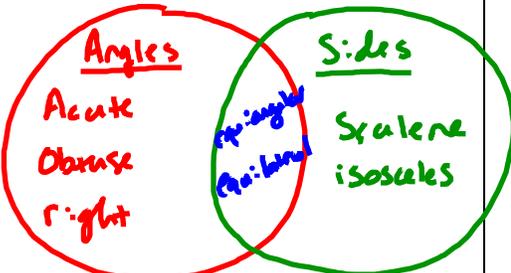
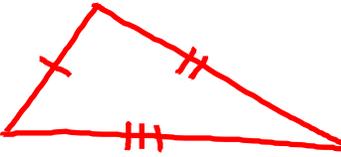
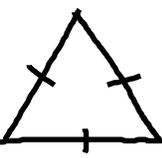
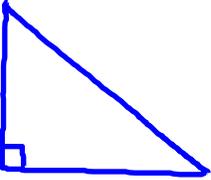
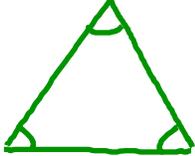


Vocabulary sheet for Lesson 3-4 (Part I)

Definition	Diagram/ Notes
<p><u>Definition:</u> Triangle- the figure formed by three segments joining three noncollinear points.</p>	
<p><u>Definition:</u> Vertex- each of the three points where two sides of the triangle meet.</p>	
<p><u>Definition:</u> Sides- the three line segments that connect the points.</p>	
<p><u>Classifying Triangles:</u> Almost all triangles have two names (like people have a first name and a last name). The first name of a triangle describes the angles the last name describes the sides.</p>	
<p><u>Definition:</u> Scalene Triangle- a triangle where no sides or angles are congruent.</p>	
<p><u>Definition:</u> Isosceles Triangle- a triangle where at least two sides and two angles are congruent.</p>	
<p><u>Definition:</u> Equilateral Triangle- a triangle where all three sides and angles are congruent.</p>	

<p>Definition: Acute Triangle- a triangle where all three angles are acute ($< 90^\circ$).</p> 	
<p>Definition: Obtuse Triangle- a triangle where one angle is obtuse ($> 90^\circ$).</p>	
<p>Definition: Right Triangle- a triangle with one right angle ($= 90^\circ$).</p>	
<p>Definition: Equiangular Triangle- a triangle where all angles are congruent</p> <p>Corollary 2: Each angle of an equilateral triangle has measure of 60°.</p>	
<p>Example 1: Classify the following triangle by angles and sides.</p> <p>$m\angle A = 88^\circ$, $m\angle B = 62^\circ$, $m\angle C = 30^\circ$ $\overline{AB} = 12$ cm, $\overline{BC} = 20$ cm, $\overline{AC} = 16$ cm</p> <p><i>acute Scalene</i></p> <p>Example 3: $m\angle A = 30^\circ$, $m\angle B = 40^\circ$, $m\angle C = 110^\circ$ $\overline{AB} = 36$ cm, $\overline{BC} = 10$ cm, $\overline{AC} = 15$ cm</p> <p><i>Obtuse Scalene</i></p>	<p>Example 2: $m\angle A = 45^\circ$, $m\angle B = 45^\circ$, $m\angle C = 90^\circ$ $\overline{AB} = \sqrt{18}$ cm, $\overline{BC} = 3$ cm, $\overline{AC} = 3$</p> <p><i>right isosceles</i></p> <p>Example 4: $m\angle A = 60^\circ$, $m\angle B = 60^\circ$, $m\angle C = 60^\circ$ $\overline{AB} = 12$ cm, $\overline{BC} = 12$ cm, $\overline{AC} = 12$ cm</p> <p><i>equiangular equilateral</i></p>

