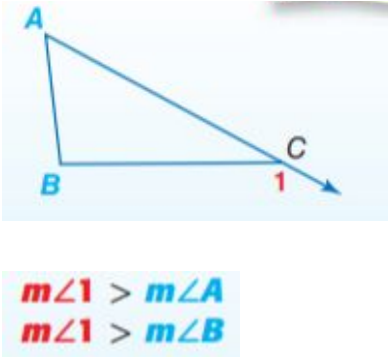
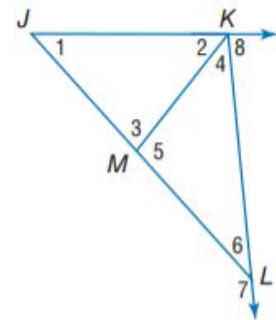


<p>Exterior Angle Inequality</p>	<p>The measure of an exterior angle of a triangle is greater than the measure of either of the corresponding remote interior angles.</p>	
----------------------------------	--	---

1. Use the Exterior Angle Inequality Theorem to list all of the angles that satisfy the stated condition below:

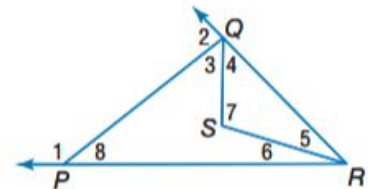
a. Measures less than $m\angle 7$



b. Measures greater than $m\angle 6$

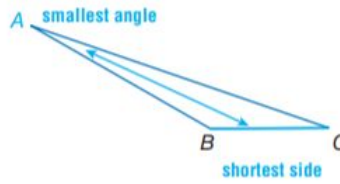
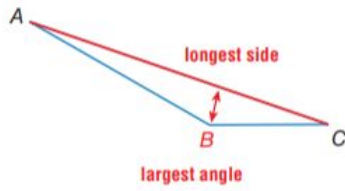
2. Use the Exterior Angle Inequality Theorem to list all of the angles that satisfy the stated condition below:

a. Measures less than $m\angle 1$



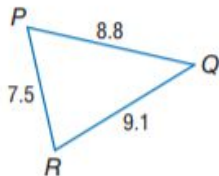
b. Measures greater than $m\angle 8$

Angle-Side Inequalities:

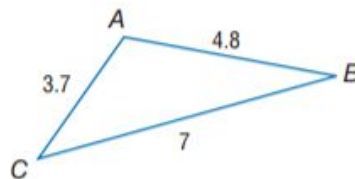


	<p>If one side of a triangle is longer than another side, then the angle opposite the longer side has a greater measure than the angle opposite the shorter side</p>	<p>$XY > YZ$, so $m\angle Z > m\angle X$.</p>
	<p>If one angle of a triangle has a greater measure than another angle, then the side opposite the greater angle is longer than the side opposite the lesser angle</p>	<p>$m\angle J > m\angle K$, so $KL > JL$.</p>

3. List the angles of $\triangle PQR$ in order from smallest to largest.

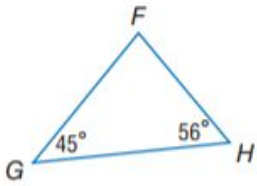


4. List the angles and sides of $\triangle ABC$ in order from smallest to largest



5.3 Inequalities in One Triangle

5. List the sides of $\triangle FGH$ in order from shortest to longest.



6. List the angles and sides of $\triangle WXY$ in order from smallest to largest.

