5.3 Inequalities in One Triangle

G.T.6 Inequalities in One Triangle.

	The following prop Transitive Property	7	ll real numbers a		
	Addition Property				
;	Subtraction Proper	ty			
		Exterior Angle 7	Гheorem		
	of the exterior angle g remote interior an		ater than the me	asure of either of its	
m<1 > m<3	-	igits.	2		
m<1 > m<3 m<1 > m<2		3		1	
Example 1:				K	
List all the angl	les with a measure le	ess than the $m < 7$	'	3 24 8	
List all of the a	ngles that are greater	than the $m < 6$		M 5 7 L	
Example 2:			~		
Measures are le	ess than m<1		1/2 31		
Measures are le	ess than m<3		4	56 7 8 9	
Measures are g	rator than m <7				

Date _____

Angle-Side Relationships in Triangles

Theorem 5.9

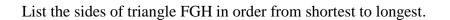
If one side of a triangle is longer than the other side of a triangle then the angle opposite the longer side has a greater measure than the angle opposite the shorter side.

Theorem 5.10

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

Example 3:

List the angles of triangle ABC in order from largest to smallest.



Example 4:

List the angles and sides of ΔWXY in order from smallest to largest.

