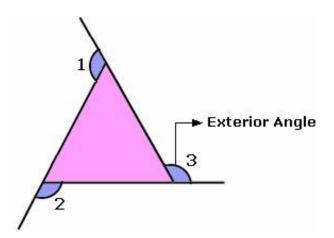
Exterior Angle Inequality Theorem

Jonathan R. Bacolod

Sauyo High School

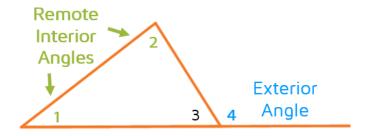
What is the Exterior Angle?

It is the angle between a side of a polygon and an extended adjacent side.



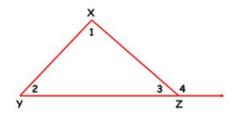
What is a Remote Interior Angle?

It is an interior angle that is not adjacent to the exterior angle.



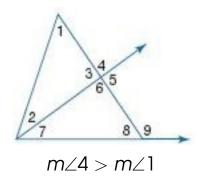
What is the Exterior Angle Inequality Theorem?

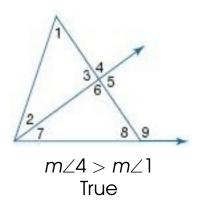
The measure of an exterior angle of a triangle is greater than the measure of either remote interior angle.

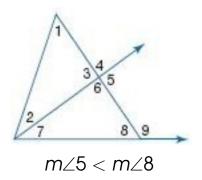


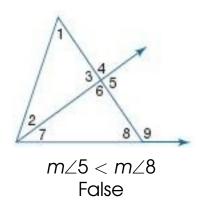
$$m \angle 4 > m \angle 1$$

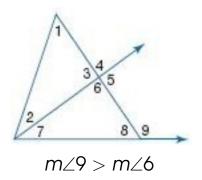
 $m \angle 4 > m \angle 2$

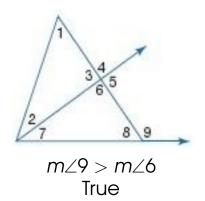


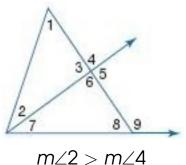


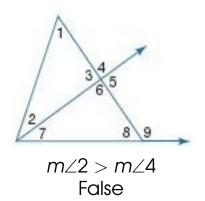


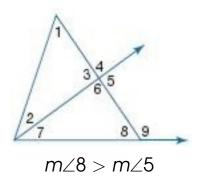


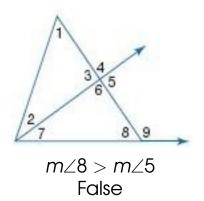


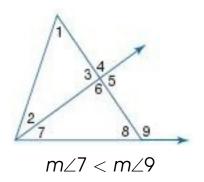


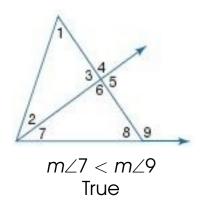


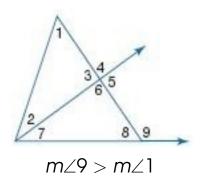


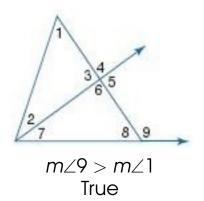


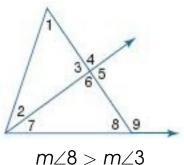


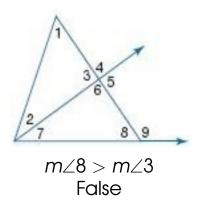


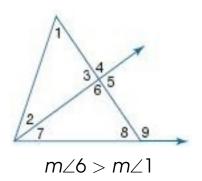


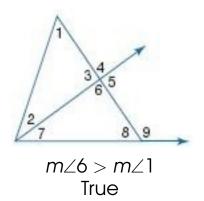


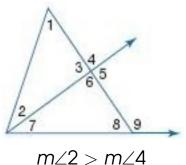


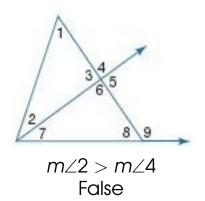


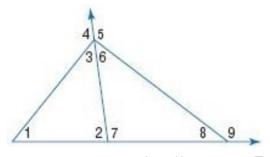




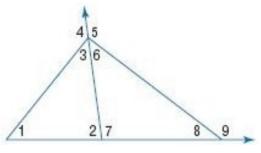




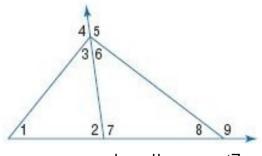




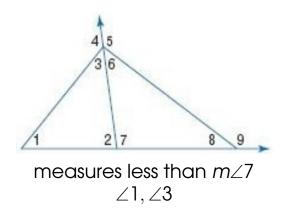
measures greater than $m\angle 7$

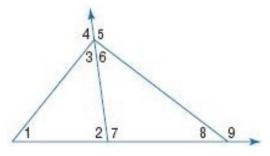


measures greater than $m\angle 7$ $\angle 5$, $\angle 9$

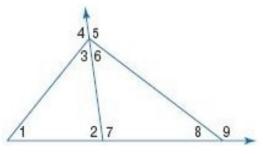


measures less than $m \angle 7$

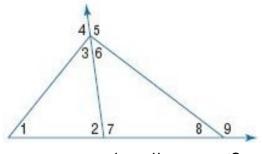




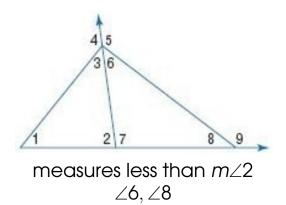
measures greater than $m\angle 6$

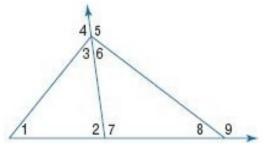


measures greater than $m\angle 6$ $\angle 2, \angle 9$

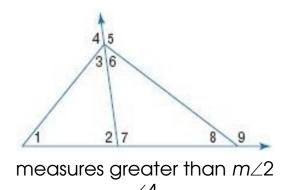


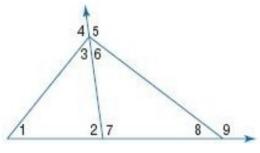
measures less than $m\angle 2$



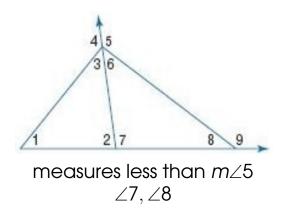


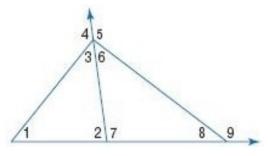
measures greater than $m\angle 2$



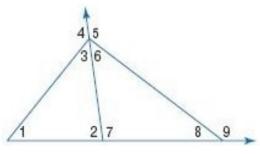


measures less than $m \angle 5$

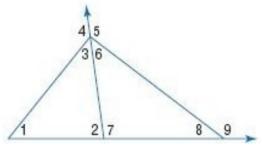




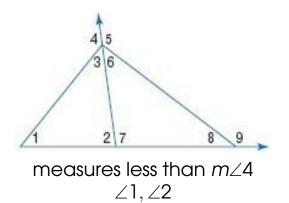
measures greater than $m \angle 1$

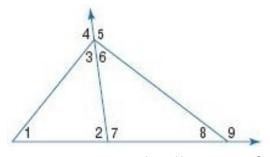


measures greater than $m \angle 1$ $\angle 4, \angle 7$

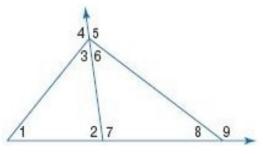


measures less than $m \angle 4$

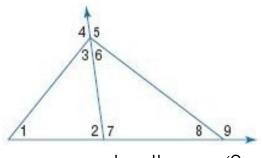




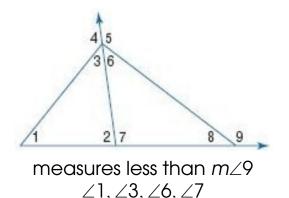
measures greater than $m \angle 8$

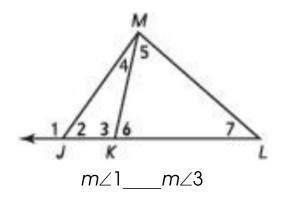


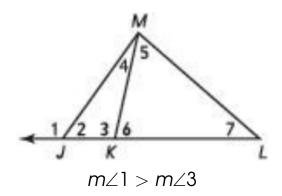
measures greater than $m \angle 8$ $\angle 2, \angle 5$

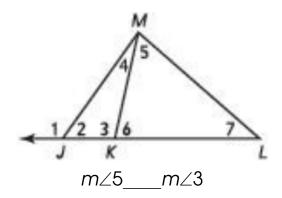


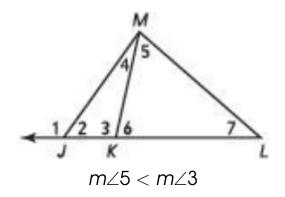
measures less than $m \angle 9$

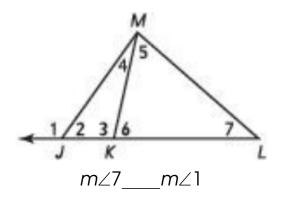


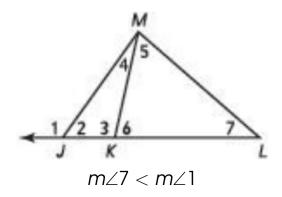


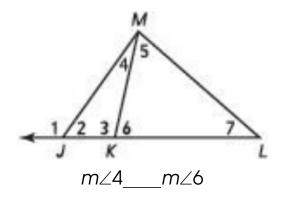


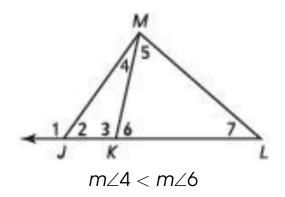


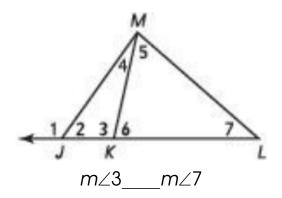


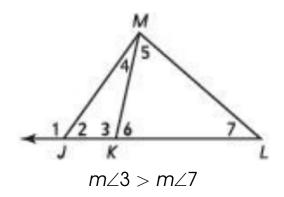


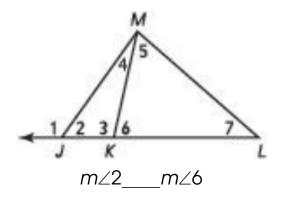


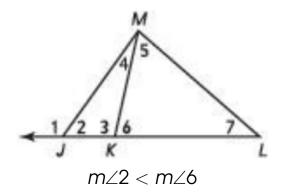


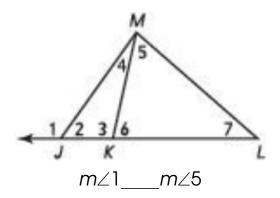


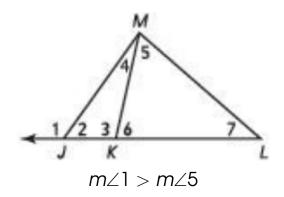












Thank you for attending the virtual class.