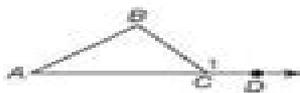


5-3 Notes and Practice *Inequalities in One Triangle*

Angle Inequalities Properties of inequalities, including the Transitive, Addition, and Subtraction Properties of Inequality, can be used with measures of angles and segments. There is also a Comparison Property of Inequality.

For any real numbers a and b , either $a < b$, $a = b$, or $a > b$.

The Exterior Angle Inequality Theorem can be used to prove this inequality involving an exterior angle.

| | | |
|---|--|---|
| <p>Exterior Angle Inequality Theorem</p> | <p>The measure of an exterior angle of a triangle is greater than the measure of either of its corresponding remote interior angles.</p> |  <p style="text-align: center;"> $m\angle 1 > m\angle A$ $m\angle 1 > m\angle B$ </p> |
|---|--|---|

Example : List all angles of $\triangle EFG$ with measures that are less than $m\angle 1$.

The measure of an exterior angle is greater than the measure of either remote interior angle. So $m\angle 3 < m\angle 1$ and $m\angle 4 < m\angle 1$.



Exercises

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

1. measures are less than $m\angle 1$
2. measures are greater than $m\angle 3$
3. measures are less than $m\angle 1$
4. measures are greater than $m\angle 1$
5. measures are less than $m\angle 7$
6. measures are greater than $m\angle 2$
7. measures are greater than $m\angle 5$
8. measures are less than $m\angle 4$



5 6 Practice Inequalities In One Triangle Key

Patrick Vollmar



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