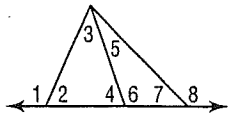
NAME _____ DATE _____ PERIOD _____

5-2 Skills Practice

Inequalities and Triangles

Determine which angle has the greatest measure.



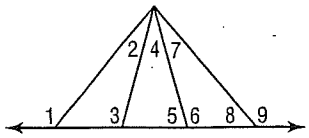
1. $\angle 1, \angle 3, \angle 4$

2. $\angle 4, \angle 5, \angle 7$

3. $\angle 2, \angle 3, \angle 6$

4. $\angle 5, \angle 6, \angle 8$

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



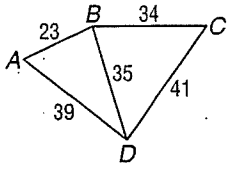
5. all angles whose measures are less than $m\angle 1$

6. all angles whose measures are less than $m\angle 9$

7. all angles whose measures are greater than $m\angle 5$

8. all angles whose measures are greater than $m\angle 8$

Determine the relationship between the measures of the given angles.



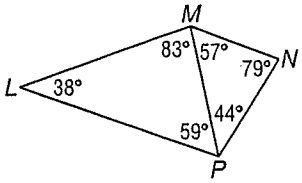
9. $m\angle ABD, m\angle BAD$

10. $m\angle ADB, m\angle BAD$

11. $m\angle BCD, m\angle CDB$

12. $m\angle CBD, m\angle CDB$

Determine the relationship between the lengths of the given sides.



13. $\overline{LM}, \overline{LP}$

14. $\overline{MP}, \overline{MN}$

15. $\overline{MN}, \overline{NP}$

16. $\overline{MP}, \overline{LP}$

Lesson 5-2