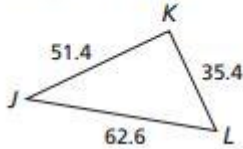


Chapter 6.5 – Inequalities in One Triangles

Write an indirect proof of each statement.

1. Write the angles in order from smallest to largest.



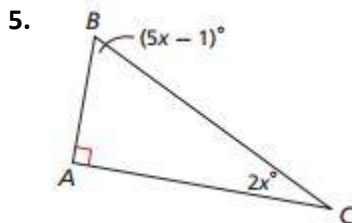
Tell whether a triangle can have sides with the given lengths. Explain.

2. 6, 10, 15

3. 11.9, 5.8, 5.8

4. $z + 8$, $3z + 5$, $4z - 11$, when $z = 6$

List the sides of each triangle in order from shortest to longest.



Compare. Write $<$, $>$, or $=$.

6. QS PS

7. QS QR

8. PQ RS

9. $m\angle ABE$ $m\angle BEA$

10. $m\angle DCE$ $m\angle DEC$

11. $m\angle ABE$ $m\angle EAB$

