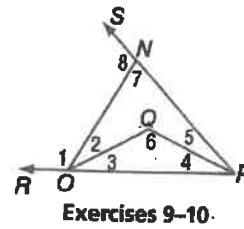
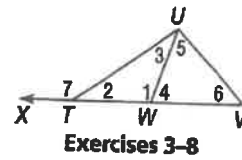
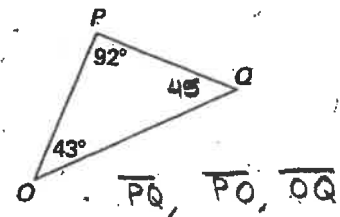
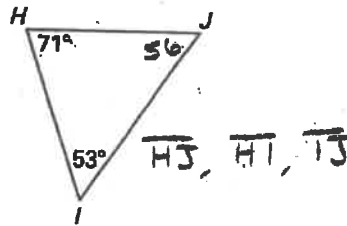
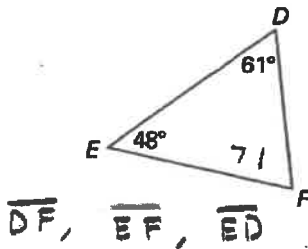


10) Use the Exterior Angle Inequality Theorem to list all of the angles that satisfy the stated condition.

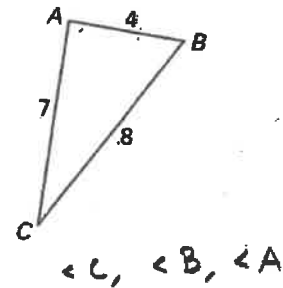
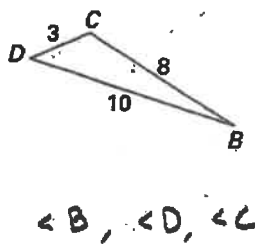
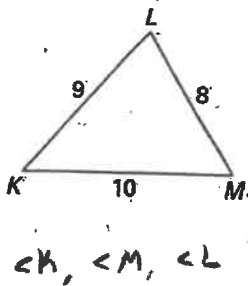
3. measures are less than $m\angle 1$ $\angle 5, \angle 6$
4. measures are greater than $m\angle 1$ $\angle 7$
5. measures are less than $m\angle 7$ $\angle 1, \angle 3, \angle 5, \angle 6$
6. measures are greater than $m\angle 2$ $\angle 4$
7. measures are greater than $m\angle 5$ $\angle 1, \angle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



11) List the sides in order from shortest to longest.



12) List the angles in order from smallest to largest.



13) Is it possible to form a triangle with the given side lengths? If not explain why not.

9, 12, 18 yes

8, 9, 17 no

14, 14, 19 yes

23, 26, 50 no

14) Find the range for the measure of the third side of a triangle given the measures of two sides.

6 ft and 19 ft $13 < x < 25$

7 km and 29 km $22 < x < 36$

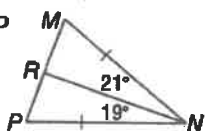
13 in. and 27 in. $14 < x < 40$

18 ft and 23 ft $5 < x < 41$

15) Compare the given measures.

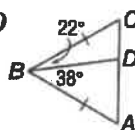
1. MR and RP

$MR > RP$



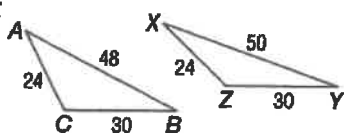
2. AD and CD

$AD > CD$



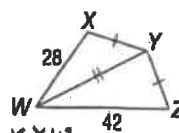
3. $m\angle C$ and $m\angle Z$

$m\angle Z > m\angle C$



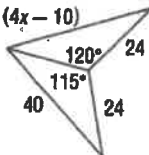
4. $m\angle XYW$ and $m\angle WYZ$

$m\angle WYZ > m\angle XYW$



16) Write an inequality for the range of values of x .

5. $(4x - 10)$

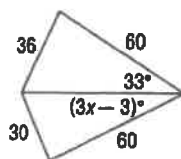


$$40 < 4x - 10$$

$$\frac{50}{4} < x$$

$$12.5 < x$$

6.



$$33 > 3x - 3$$

$$36 > 3x$$

$$12 > x$$