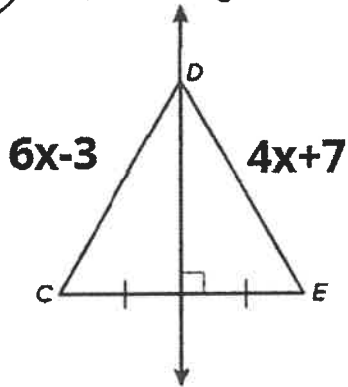


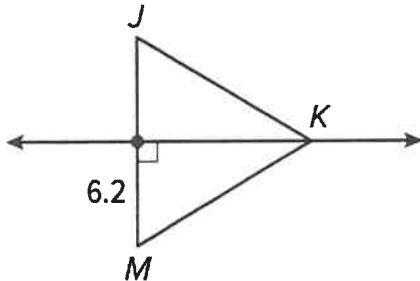
Module 6 – Test Form B

Relationships in Triangles

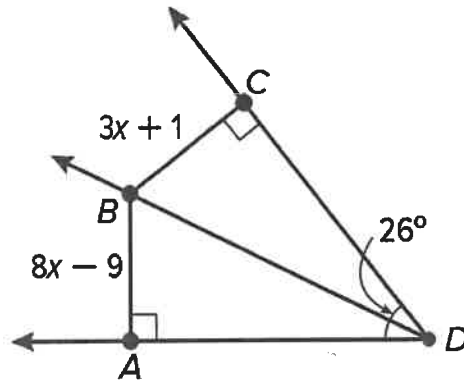
1. What is the length of \overline{DE} ? _____



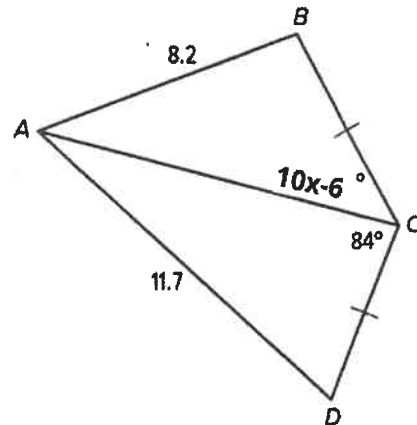
2. If $\overline{JK} \cong \overline{MK}$, the length of \overline{JM} is _____



3. The length of \overline{CB} is _____
and $m\angle BDA$ is _____



4. What is the range of possible values for x ?



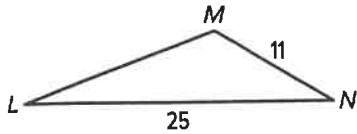
Answer: $< X <$

5. Complete the table by placing an X in the appropriate column to tell whether or not the given side lengths form a triangle.

	Makes a Triangle	Does Not Make a Triangle
3 in., 5 in., 7 in.		
5 cm, 7 cm, 10 cm		
3.1 cm, 3.1 cm, 3.1 cm		
20 ft, 20 ft, 40 ft		

6.

What is the possible range for the length of side \overline{LM} ?



- A. $LM > 14$ C. $14 < LM < 36$
 B. $LM < 36$ D. $14 > LM > 36$

7.

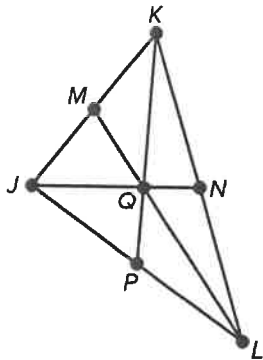
BEES The location of three beehives in an apple orchard forms a triangle. Hive A is 700 feet from Hive B. Hive B is 300 feet from Hive C.

The possible range for the distance between Hive A and Hive C is

_____ $< x <$ _____.

8.

In $\triangle JKL$, Q is the centroid and $ML = 45$.

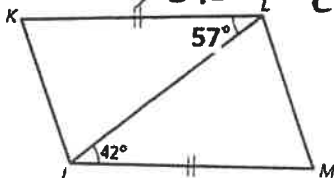


$MQ =$ _____ $QL =$ _____

9.

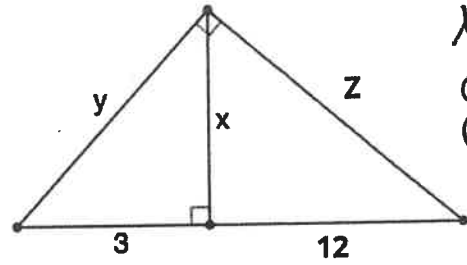
How do the lengths of sides \overline{JK} and \overline{LM} compare?

- A.) $\overline{JK} < \overline{LM}$
 B.) $\overline{JK} > \overline{LM}$
 C.) $\overline{JK} = \overline{LM}$



10.

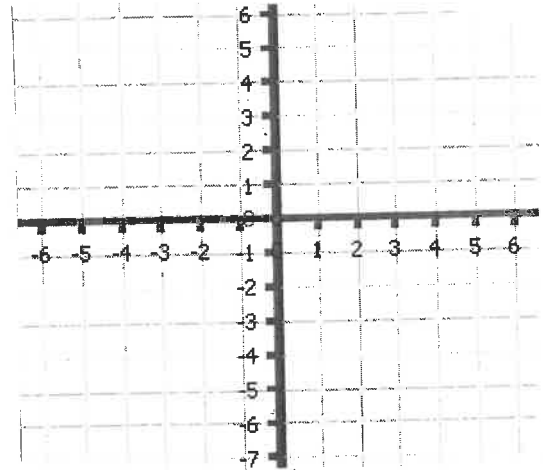
Solve for the value of x , y , and z .
 Make sure to simplify the radicals.



$x =$ _____
 $y =$ _____
 $z =$ _____

11. Graph triangle ABC . Graph the three medians and find the centroid. Use the centroid formula to prove your answer.

$A(-2,0)$ $B(5,0)$ $C(0,-6)$



Location of the centroid is (____, ____)