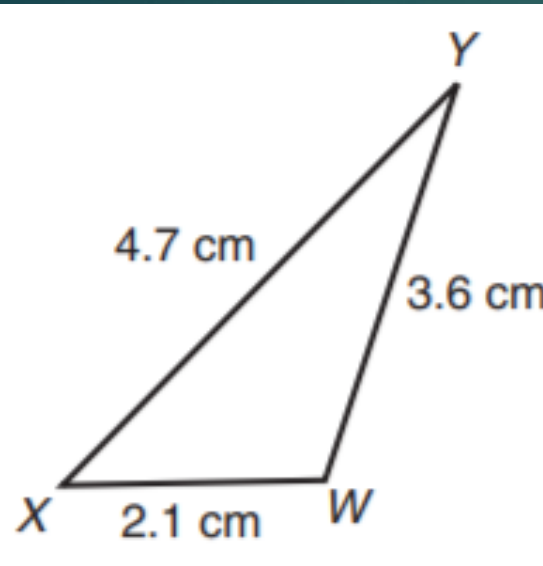
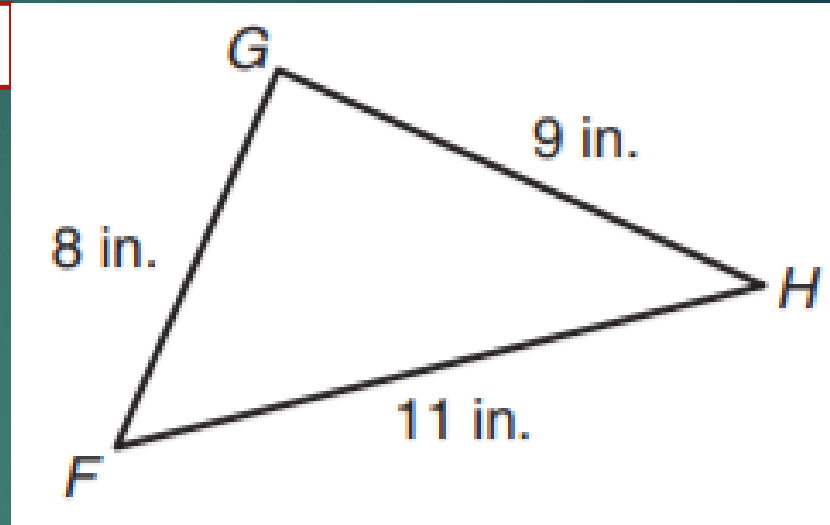


Without measuring the angles, list the angles of each triangle in order from least to greatest measure.

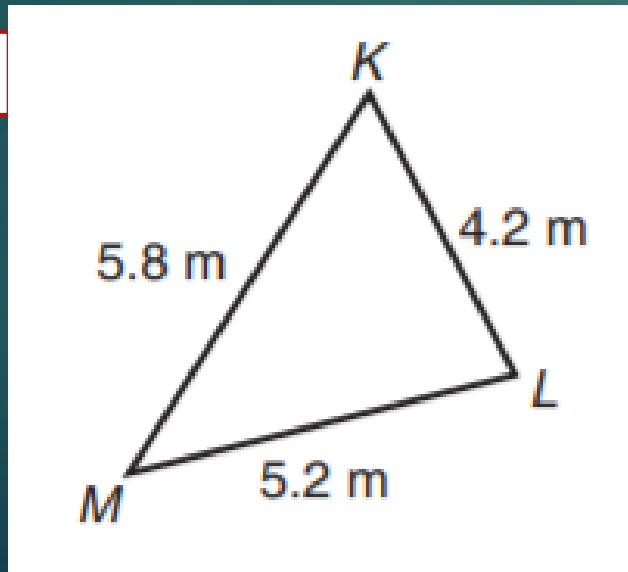
1)



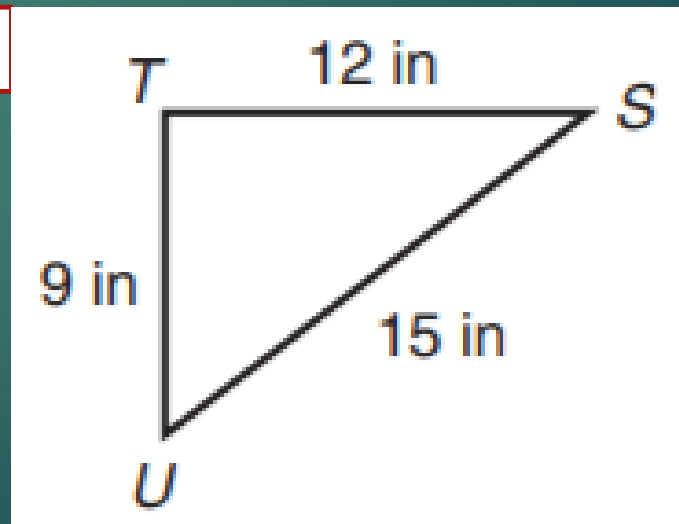
2)



3)



4)



Determine whether it is possible to form a triangle using each set of segments with the given measurements. Explain your reasoning.

Example:

3 inches, 2.9 inches, 5 inches

Yes. A triangle can be formed because the sum of the two shortest sides is greater than the longest side.

Sum of the Two Shortest Sides: $3 + 2.9 = 5.9$

Longest Side: 5

5)

7.4 centimeters, 8.1 centimeters, 9.8 centimeters

6)

8 feet, 9 feet, 11 feet

7)

4 meters, 5.1 meters, 12.5 meters

Determine whether it is possible to form a triangle using each set of segments with the given measurements. Explain your reasoning.

8) 20.2 inches, 11 inches, 8.2 inches

9) 8 ft, 8 ft, 8 ft

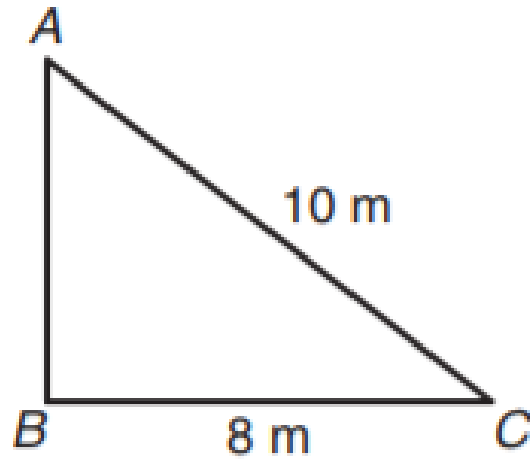
10) 30 cm, 12 cm, 17 cm

11) 112 millimeters, 300 millimeters, 190 millimeters

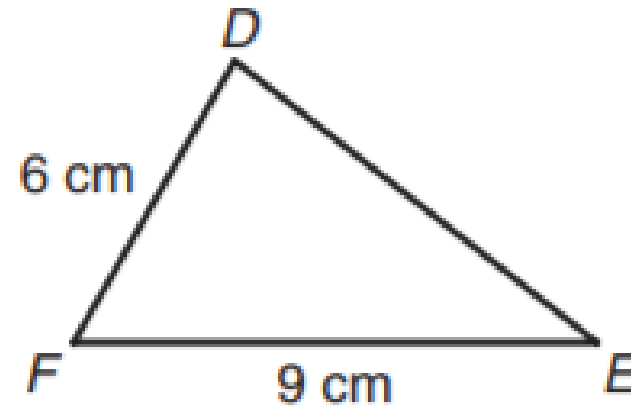
12) 10 yards, 5 yards, 21 yards

Write an inequality that expresses the possible lengths of the unknown side of each triangle.

13) What could be the length of \overline{AB} ?

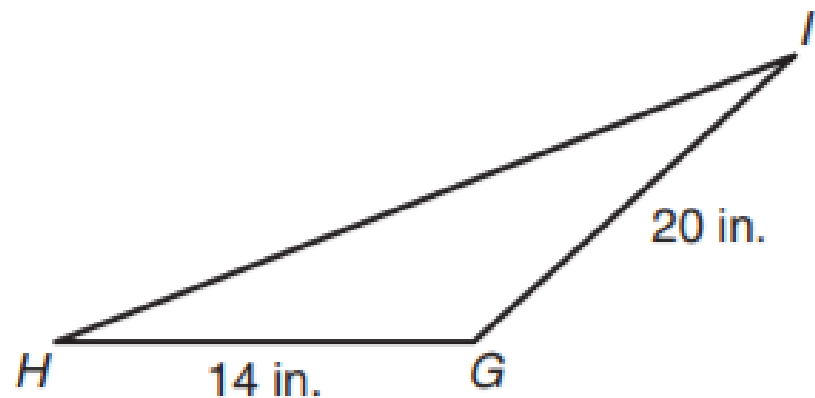


14) What could be the length of \overline{DE} ?



Write an inequality that expresses the possible lengths of the unknown side of each triangle.

15) What could be the length of \overline{HI} ?



16) What could be the length of \overline{QR} ?

