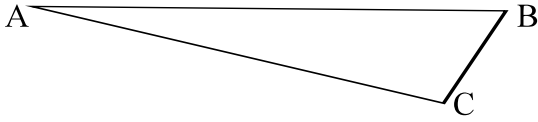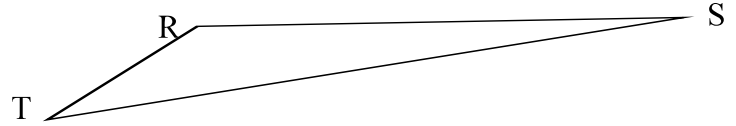# Triangles: Angle- Side Relationships 2
Geometry
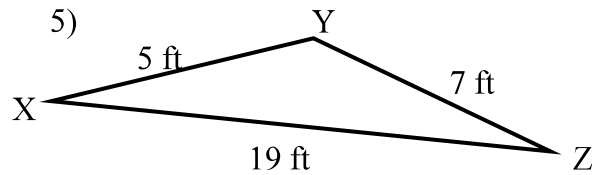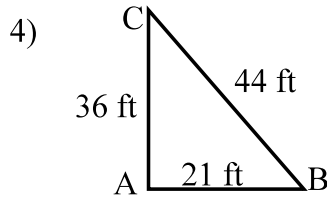
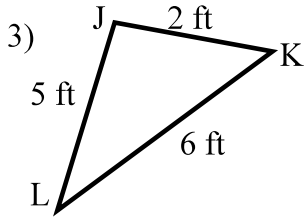1) In the triangle, AB > BC. What is true of ∠C and ∠A?
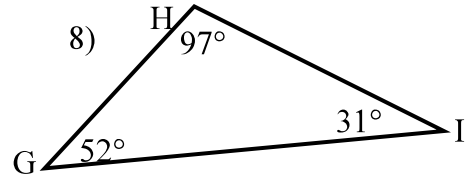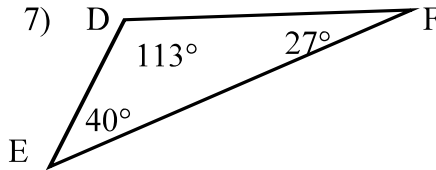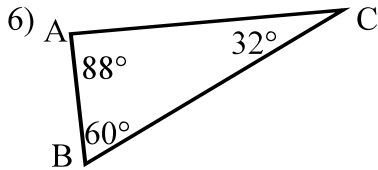

2) In the triangle, ST > RT. What is true of ∠S and ∠R?

List the angles from smallest to greatest.

3)

J 2 ft K
5 ft
6 ft
L

4)

C
44 ft
36 ft
A 21 ft B

5)

Y
5 ft
X
19 ft
7 ft
Z

List the sides from longest to shortest.

6)

A 32° C
88°
60°
B

7)

D 113° 27° F
40°
E

8)

H 97°
31° I
G 52°

9) In a triangle ∠A is smaller than ∠B, and ∠B is smaller than ∠C. List the sides from longest to shortest.

10) In a triangle CD > DF > FC. List the angles from smallest to biggest.

List three inequalities for each triangle.

11)

A
B C

12)

V X
W

13)

M N
O
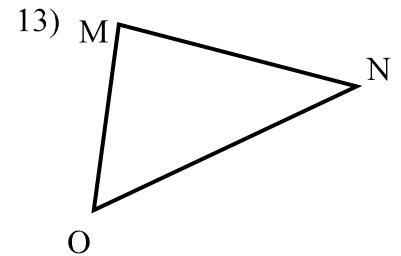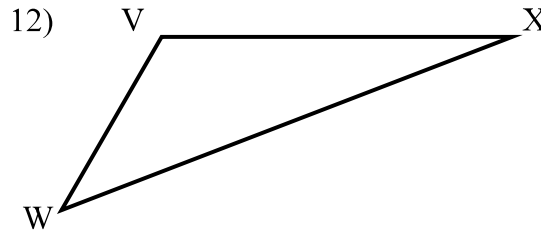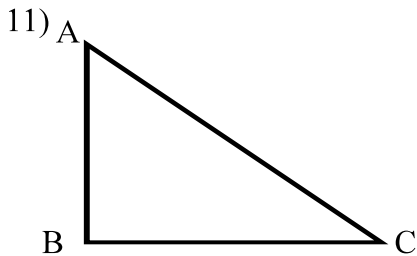
Can these numbers be the lengths of the sides of a triangle?

14) 9, 7, 3   15) 10, 6, 4   16) 15, 1, 13   17) 21, 14, 32   18) 19, 35, 14

19) 19, 2, 18   20 17, 4, 21   21) 10, 5, 17   22) 14, 11, 22   23) 7, 18, 9

In the following problems, the lengths of two sides of a triangle are given. What can you say about the possible lengths for the third side?

24) 17, 5   25) 19, 11   26) 8, 2   27) 19, 35