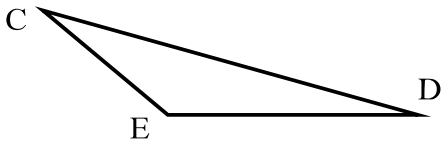
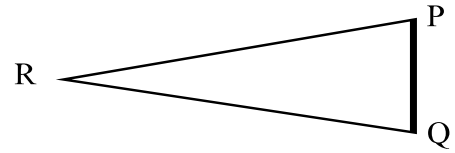


Triangles: Angle-Side Relationships  
Geometry

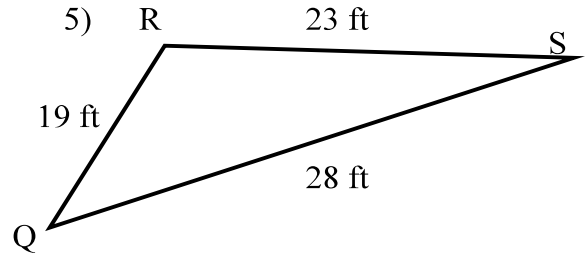
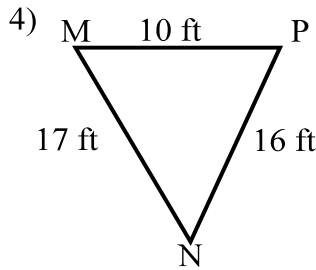
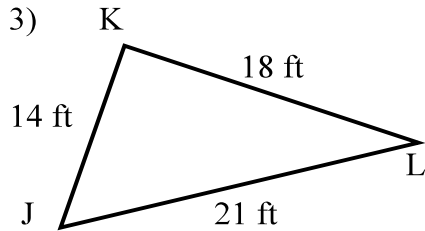
1) In triangle CDE,  $CD > DE$ . What is true of  $\angle E$  and  $\angle C$ ?



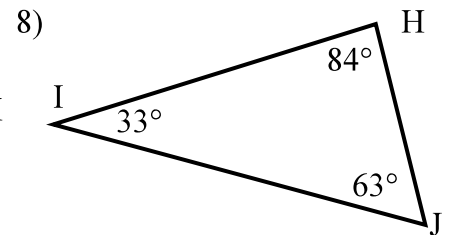
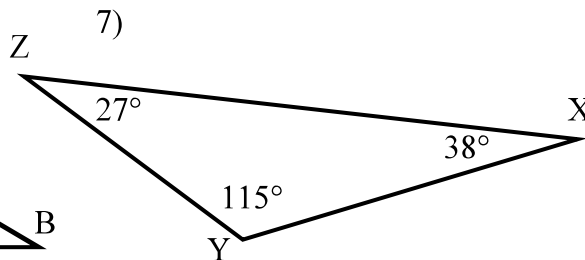
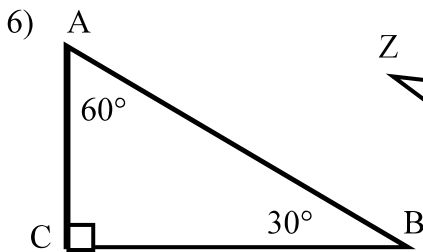
2) In triangle PQR,  $PR > QP$ . What is true of  $\angle R$  and  $\angle Q$ ?



List the angles from smallest to greatest.



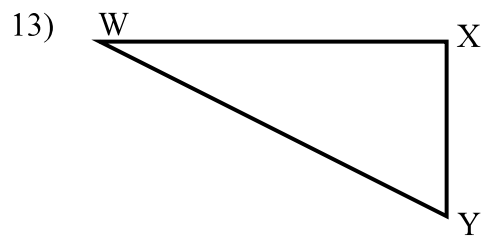
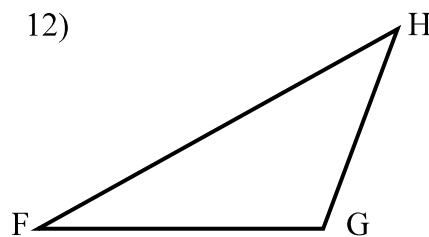
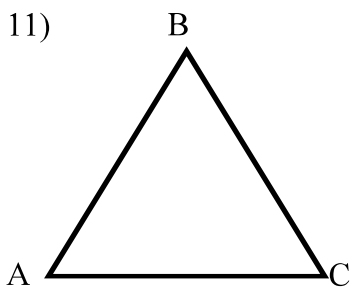
List the sides from longest to shortest.



9) In a triangle  $\angle G$  is larger than  $\angle J$ , and  $\angle J$  is larger than  $\angle K$ . List the sides from longest to shortest.

10) In a triangle  $TU > UV > TU$ . List the angles from biggest to smallest.

List three inequalities for each triangle.



Can these numbers be the lengths of the sides of a triangle.?

14) 3, 4, 5

15) 9, 10, 18

16) 2, 3, 6

17) 5, 6, 9

18) 13, 6, 19

19) 14, 9, 27

20) 12, 13, 21

21) 9, 21, 12

22) 14, 7, 11

23) 15, 34, 18

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) 13, 6

25) 11, 11

26) 15, 18

27) 15, 34