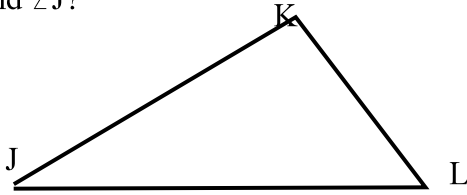
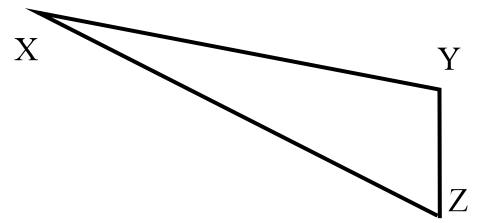


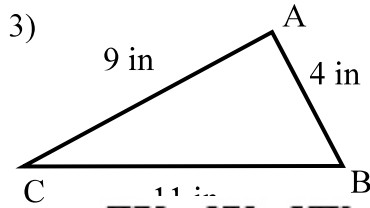
1) In the triangle, $JL > LK$. What is true of $\angle K$ and $\angle J$?



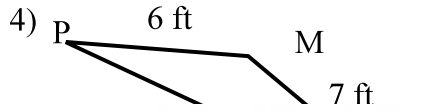
2) In the triangle, $XZ > YZ$. What is true of $\angle Y$ and $\angle X$?



List the angles from smallest to greatest.



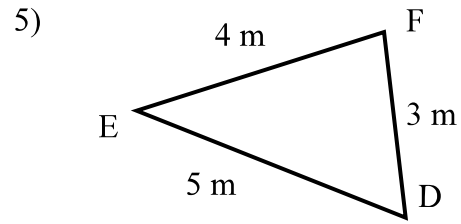
$$WX + XV > VW$$



$$FH + HG > GF$$

$$FH + GF > HG$$

$$HG + GF > FH$$

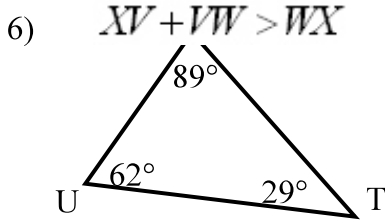


$$ML + LK > KM$$

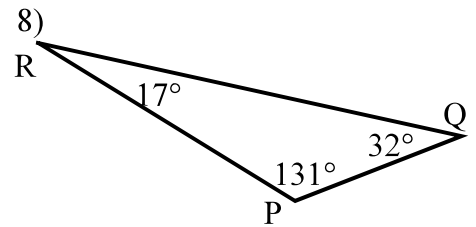
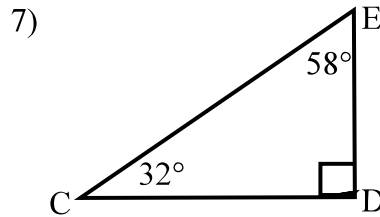
$$ML + KM > LM$$

$$LK + KM > LM$$

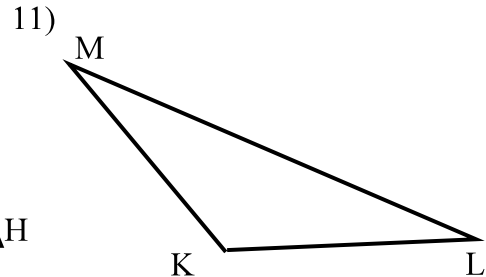
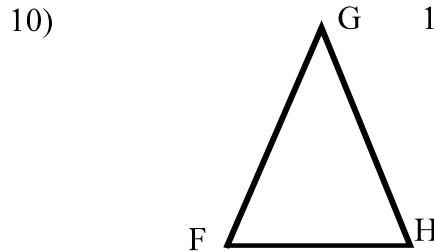
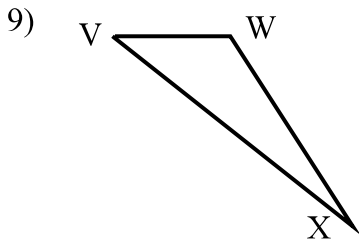
List the sides from longest to shortest.



$$XV + VW > WX$$



List three inequalities for each triangle.



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

12) 6, 4, 9

13) 2, 3, 2

14) 20, 2, 17

15) 6, 10, 4

16) 7, 7, 13

Yes

Yes

No

No

Yes

17) 9, 2, 4

18) 24, 8, 18

19) 19, 15, 2

20) 15, 20, 5

21) 11, 13, 15

No

Yes

No

No

Yes

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?

22) 10, 4

23) 12, 3

24) 1, 6

25) 13, 13

$$6 < x < 14$$

$$9 < x < 15$$

$$5 < x < 7$$

$$0 < x < 26$$

