

Triangle Inequality and Inequalities in one triangle

Date_____ Period____

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State if the three numbers can be the measures of the sides of a triangle.

1) 9, 9, 20

2) 12, 6, 12

3) 15, 8, 7

4) 24, 11, 10

5) 8, 8, 8

6) 20, 9, 11

7) 12, 1, 11

8) 6, 12, 18

9) 16, 7, 7

10) 3, 9, 9

Two sides of a triangle have the following measures. Find the range of possible measures for the third side.

11) 12, 10

12) 11, 7

13) 12, 9

14) 7, 12

15) 9, 6

16) 8, 12

17) 10, 9

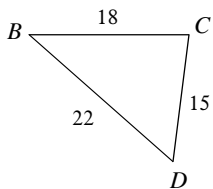
18) 11, 8

19) 10, 8

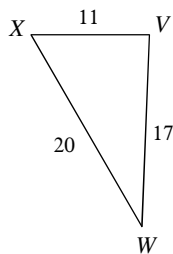
20) 6, 11

Order the angles in each triangle from smallest to largest.

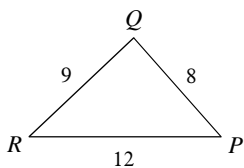
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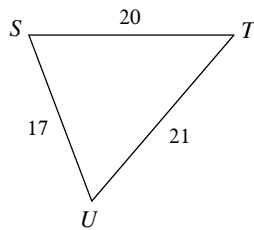
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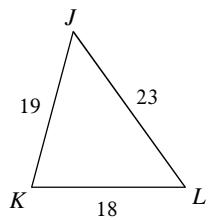
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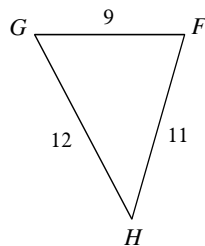
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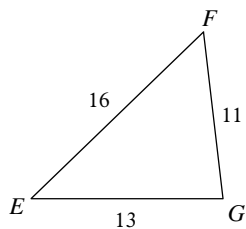
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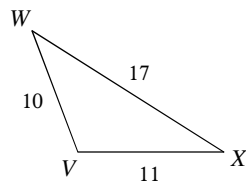
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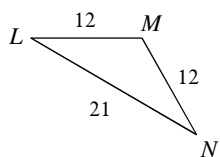
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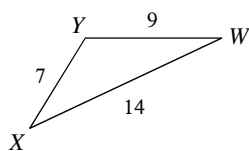
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29)

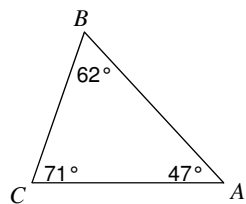


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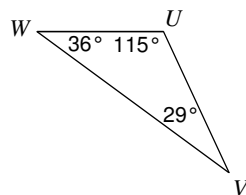


Order the sides of each triangle from shortest to longest.

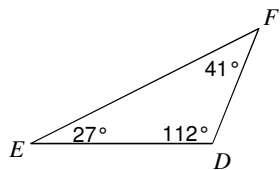
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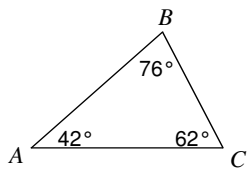
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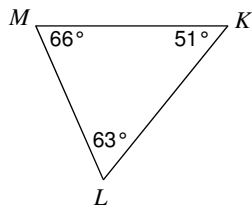
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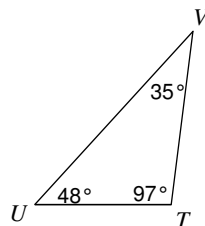
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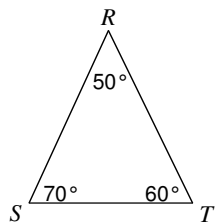
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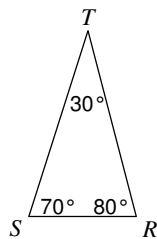
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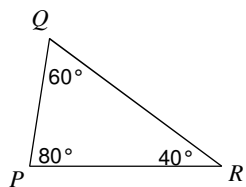
37)



38)



39)



40)

