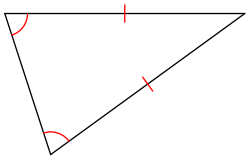
Secondary II-Unit 1.2 Triangles Day 1 Homework Name_____

Basic Triangle Properties

Date_____ Period____

Classify each triangle by its angles and sides. Equal sides and equal angles, if any, are indicated in each diagram.

1)



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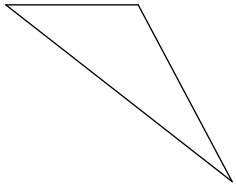

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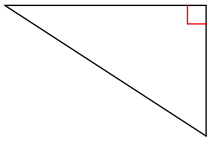

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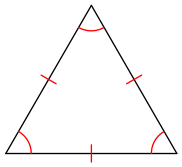
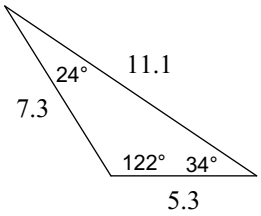


Classify each triangle by its angles and sides.

5)



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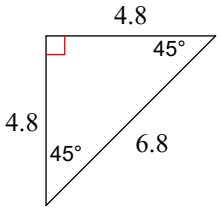

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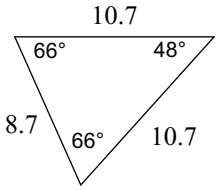

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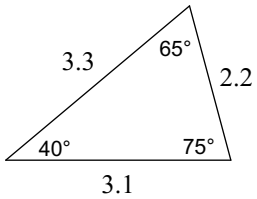
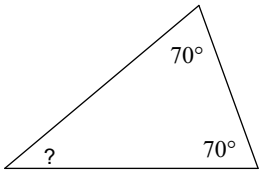


Find the measure of each angle indicated.

9)



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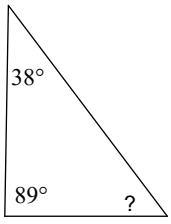

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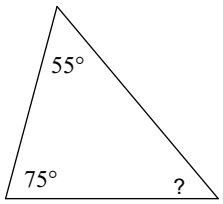

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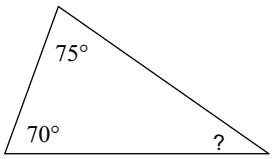
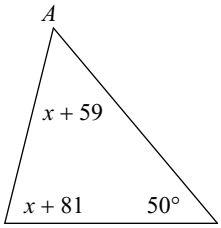


Find the measure of angle A.

13)



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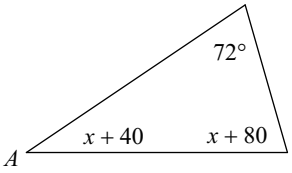

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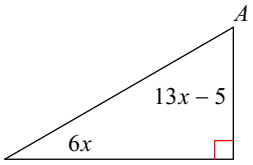

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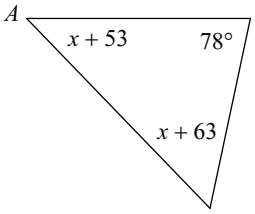


Prove if the three numbers can be the measures of the sides of a triangle.

17) 25, 12, 11

18) 8, 17, 10

19) 14, 9, 8

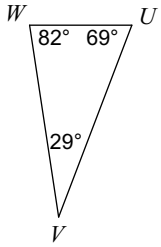
20) 9, 7, 16

21) 9, 7, 12

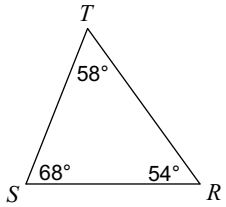
22) 14, 7, 11

Order the sides of each triangle from shortest to longest.

23)



24)



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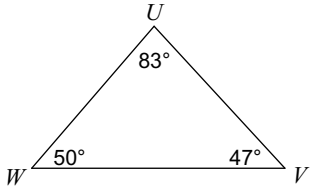

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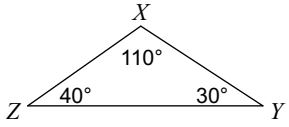
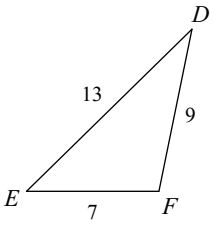


Order the angles in each triangle from smallest to largest.

27)



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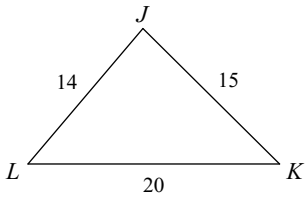

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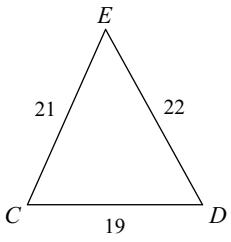
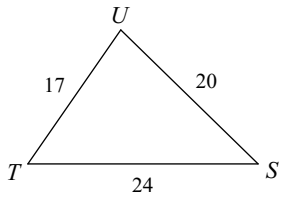
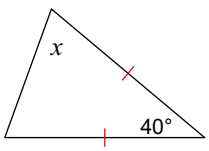


30)



Find the value of *x*.

31)



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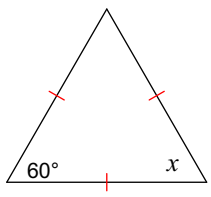

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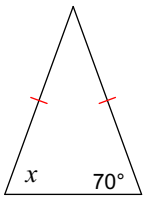

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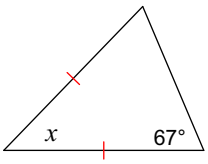

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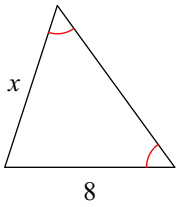

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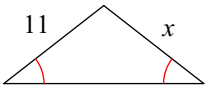

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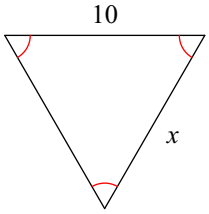

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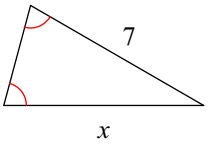
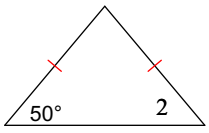
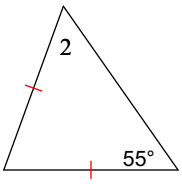


39) $m\angle 2 = 7x + 1$



40) $m\angle 2 = x + 67$



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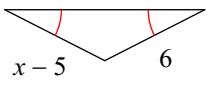

42)