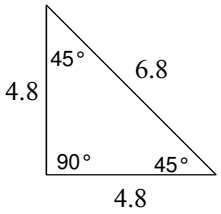
0520 Geometry Name_____

Classifying Triangles

Date_____ Period____

Classify each triangle by its sides as equilateral, isosceles, or scalene.

1)



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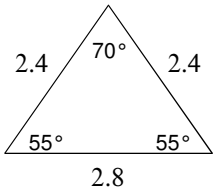

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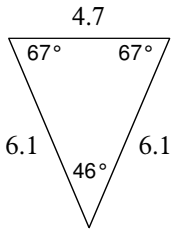

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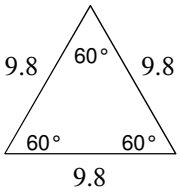

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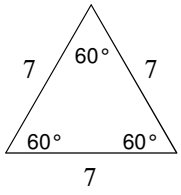

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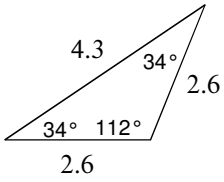
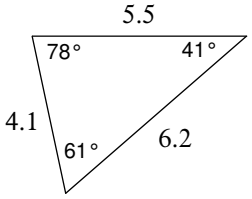


Classify each triangle by its angles as acute, right, obtuse, or equiangular.

7)



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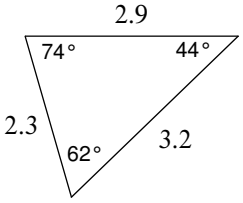

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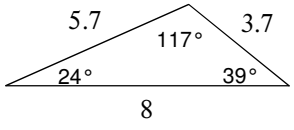

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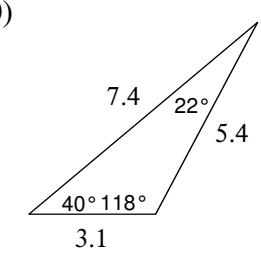

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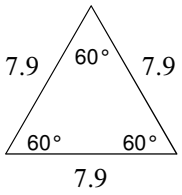

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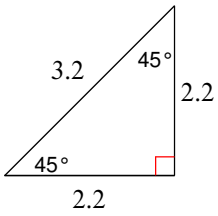
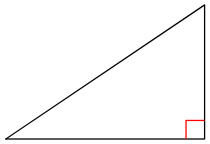


Classify each triangle by its sides as scalene, isosceles, or equilateral. Equal sides and equal angles, if any, are indicated in each diagram.

13)



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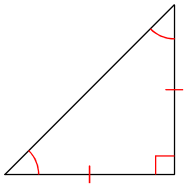

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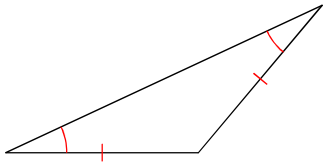

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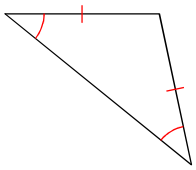

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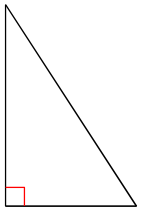

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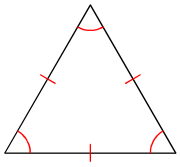
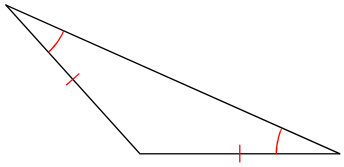


Classify each triangle by its angles as acute, right, obtuse, or equiangular.

19)



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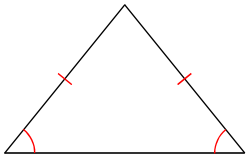

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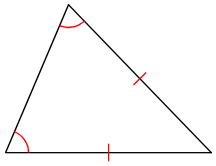

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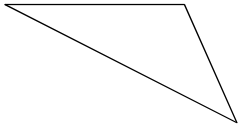
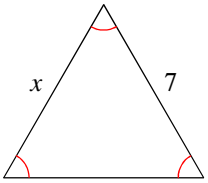


Find the value of *x*.

23)



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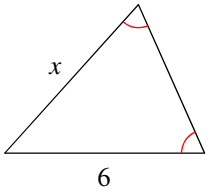

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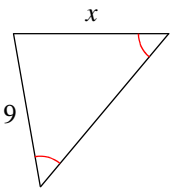

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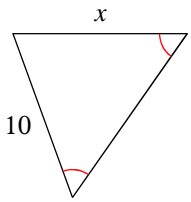

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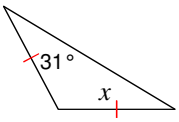

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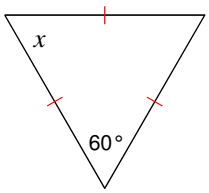

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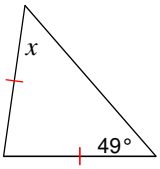

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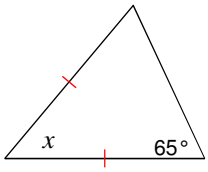

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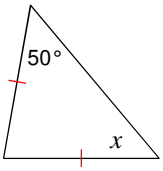

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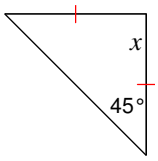
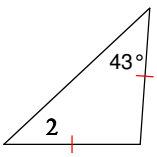
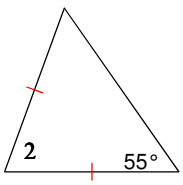


Based on the information given, write and solve an equation for x.

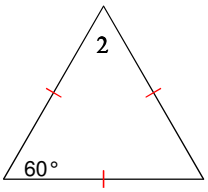
33) $m\angle 2 = 6x + 1$



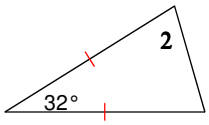
34) $m\angle 2 = -10 + 8x$



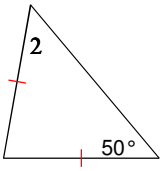
35) $m\angle 2 = 5x$



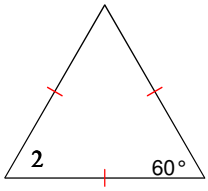
36) $m\angle 2 = 8x + 2$



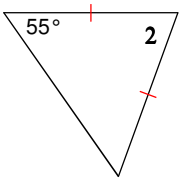
37) $m\angle 2 = x + 62$



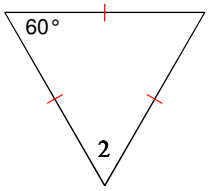
38) $m\angle 2 = x + 70$



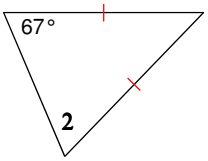
39) $m\angle 2 = 8x + 6$



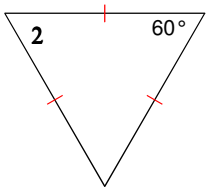
40) $m\angle 2 = x + 67$



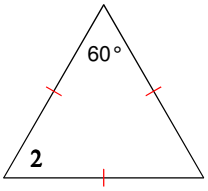
41) $m\angle 2 = x + 75$



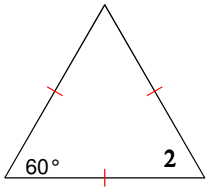
42) $m\angle 2 = 11x - 6$



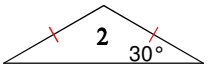
43) $m\angle 2 = 4x + 16$



44) $m\angle 2 = 6x - 12$



45) $m\angle 2 = 20x$



46) $m\angle 2 = x + 90$