

Triangle Rules

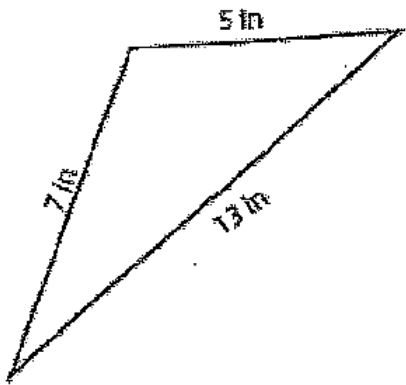
NAME _____

Triangle Inequality Theorem

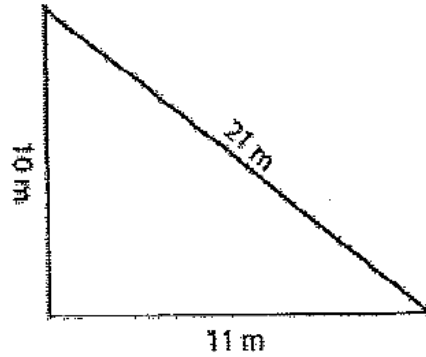
The sum of any two sides of a triangle must be greater than the third side.

Can the three sides form a triangle? Explain why or why not.

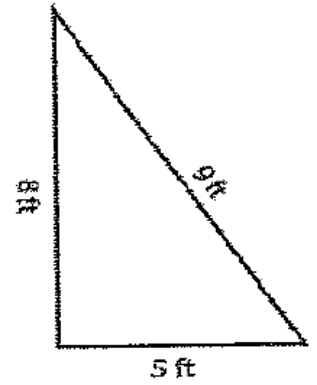
1.



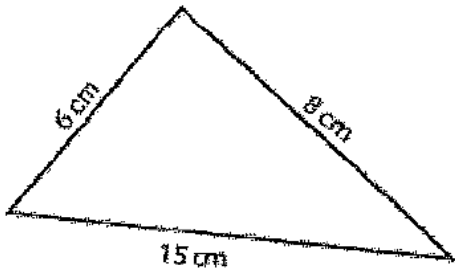
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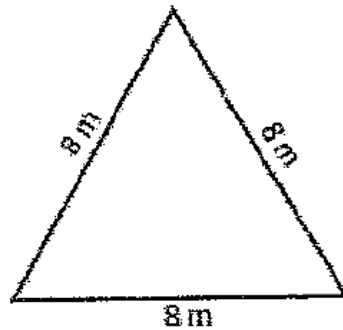
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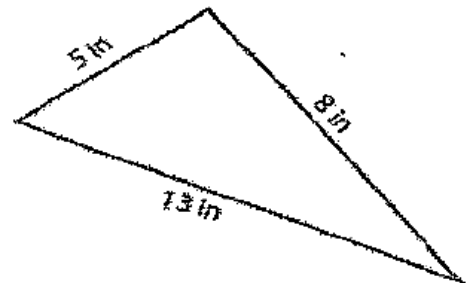
4.



5.



6.



7. 3, 4, 9

8. 8, 7, 2

9. 14, 3, 9

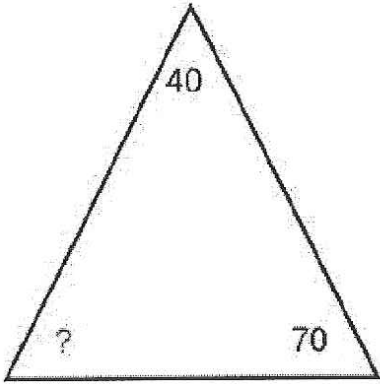
10. 4, 9, 5

Triangle Sum Theorem

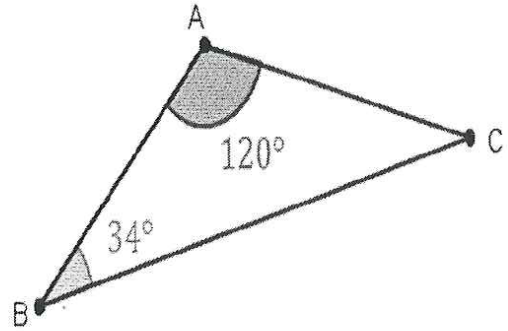
The sum of the angles of a triangle must add up to 180° .

Find the missing angle in each triangle.

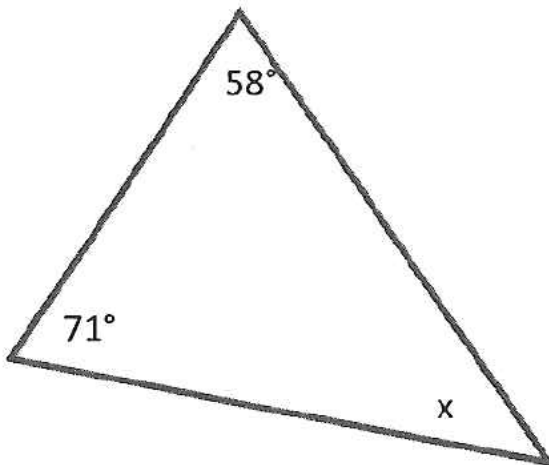
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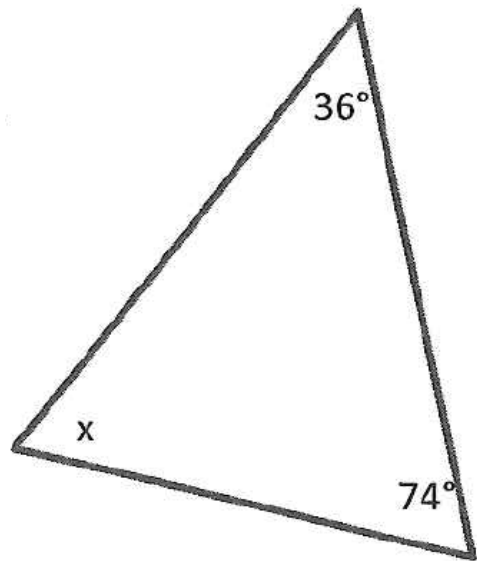
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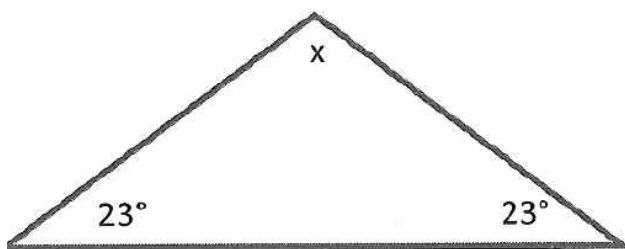
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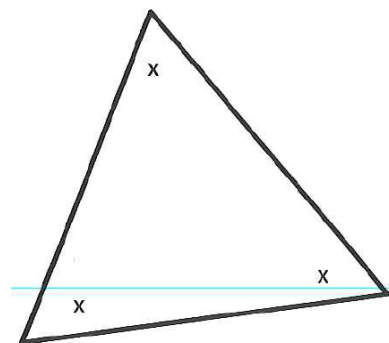
14.



15.



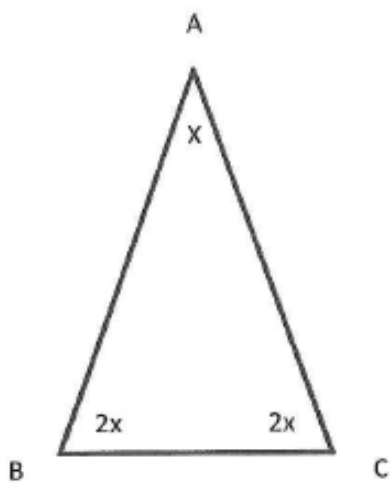
16.



17. For each of the following, write an equation and find each of the angles...

Find all the angles in each of the following...

1.

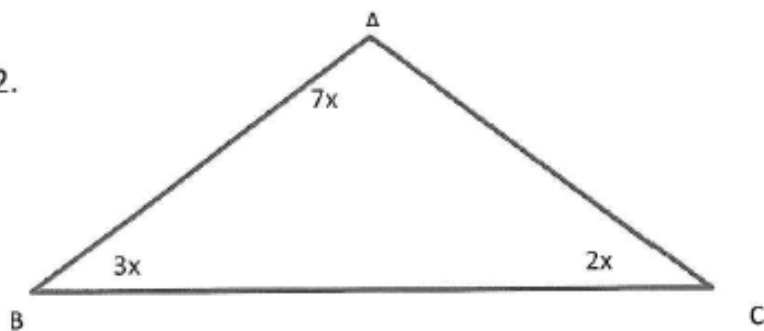


$\angle A = \underline{\hspace{2cm}}$

$\angle B = \underline{\hspace{2cm}}$

$\angle C = \underline{\hspace{2cm}}$

2.

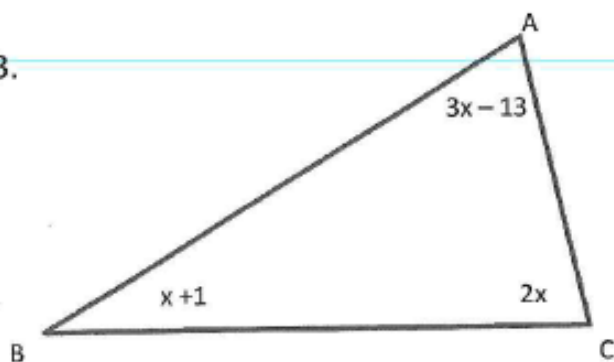


$\angle A = \underline{\hspace{2cm}}$

$\angle B = \underline{\hspace{2cm}}$

$\angle C = \underline{\hspace{2cm}}$

3.



$\angle A = \underline{\hspace{2cm}}$

$\angle B = \underline{\hspace{2cm}}$

$\angle C = \underline{\hspace{2cm}}$