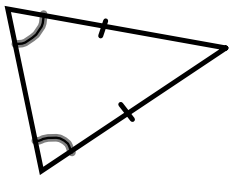
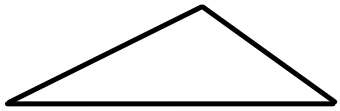
Classify each triangle by its sides and angles. Choose from acute, right, obtuse, scalene, isosceles, equilateral and/or equiangular.

1. 

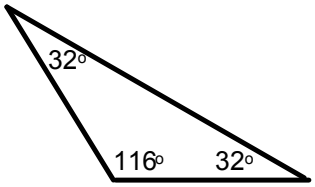
sides: _____

angles: _____

2. 

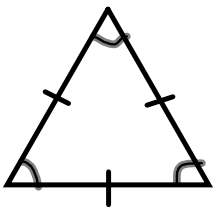
sides: _____

angles: _____

3. 

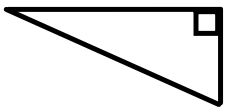

sides: _____

angles: _____

4. 

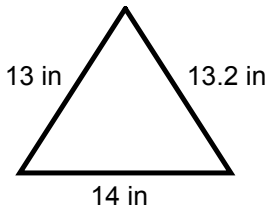
sides: _____

angles: _____

5. 

sides: _____

angles: _____

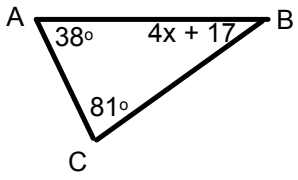
6. 


sides: _____

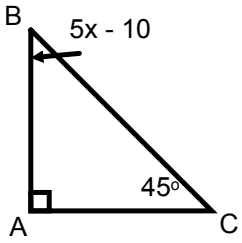
angles: _____

Write an equation to find the value of x, then find the measure of angle B.

7.

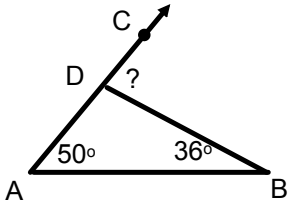



8.



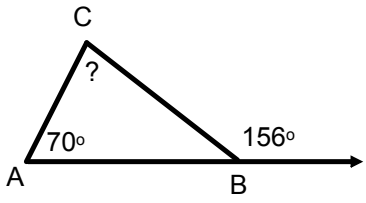
Find the missing angle measure.

9.



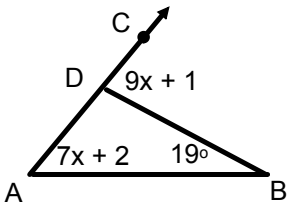

? = _____

10.




? = _____

11. Find the value of x.



Refer to the isosceles triangle at the right to answer each question.

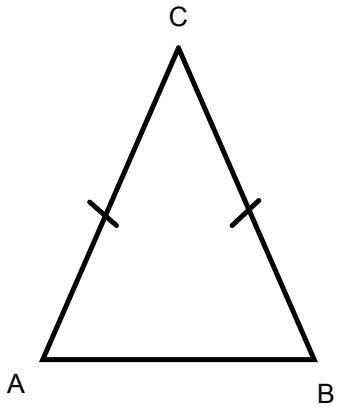
12. Name the base.

13. Name the vertex angle.

14. Name the legs.

15. Name the base angles.

16. Name two properties of isosceles triangles.



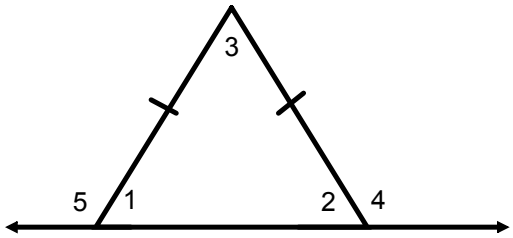
Using the diagram at the right, find the missing angle measures if m < 1 = 65°.

17. m < 5 = _____

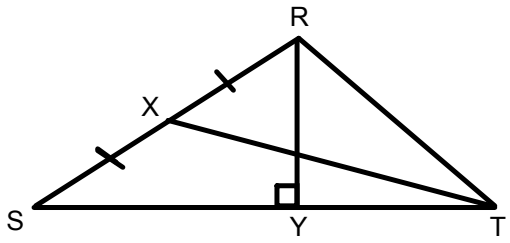
18. m < 2 = _____

19. m < 4 = _____

20. m < 3 = _____



21. Name an altitude and a median of the diagram.




22. Draw a right triangle. Label it $\Delta$MNO. Construct three medians.

23. Draw an obtuse triangle. Label it $\Delta$MNO. Construct three altitudes.

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

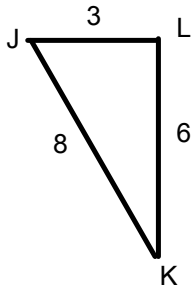
24. 3, 4, and 8

25. 3, 4, and 7

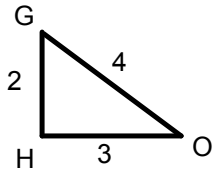
26. 3, 4, and 2

Order the angles in each triangle from smallest to largest.

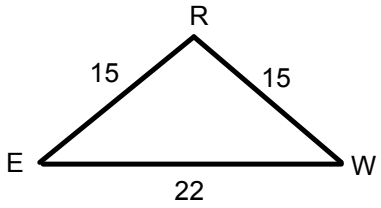
27.



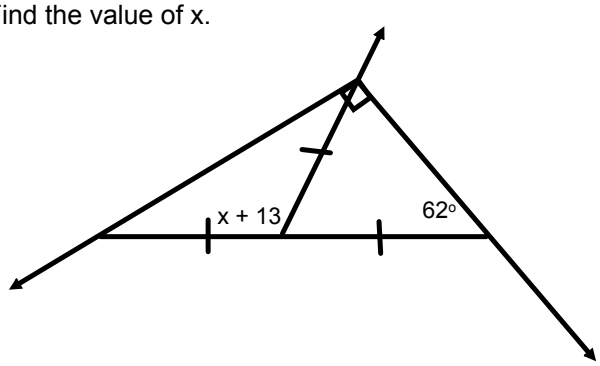

28.



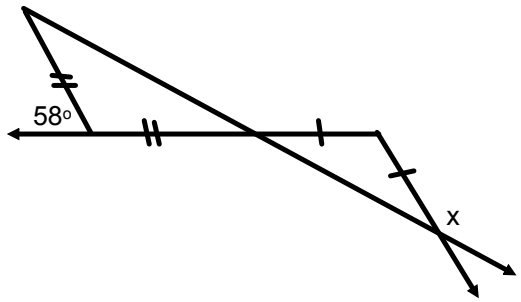

29.



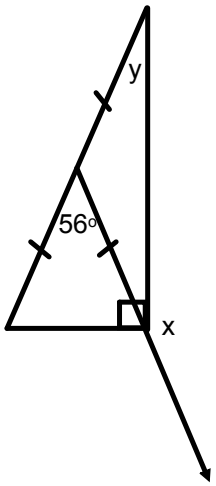
30. Find the value of x.



31. Find the value of x.



32. Find the value of x and y.



Write an equation and solve for x.  Find the measure of < SRK.

33.