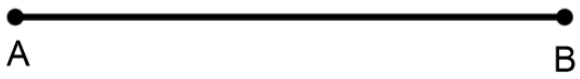
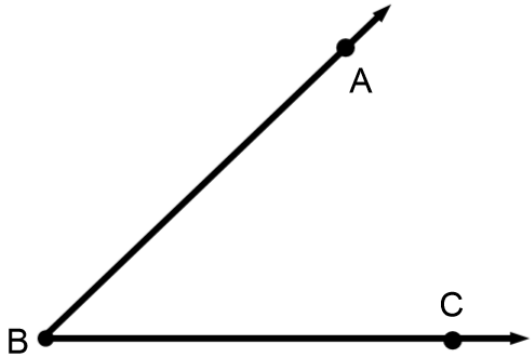
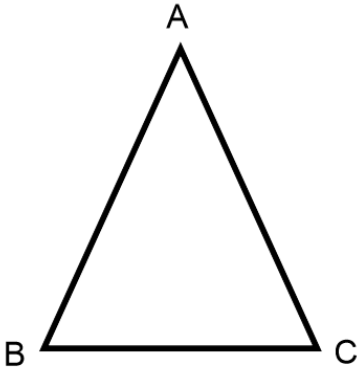
1. Draw the perpendicular bisector of $\overline{AB}$. Make sure you include any important tick marks or angle measures.



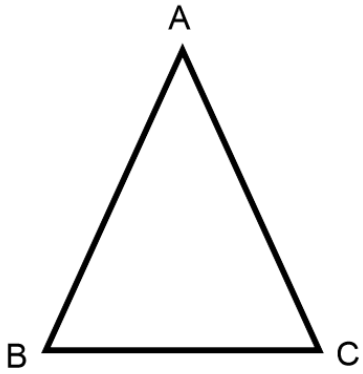
2. Draw the angle bisector of <ABC. Make sure you include any important tick marks or angle measures.



3. Draw the midsegment that is parallel to $\overline{AB}$. Make sure to include any important tick marks or angle measures.



4. Draw the median $\overline{CL}$. (You will have to label point L on the triangle). Make sure to include any important tick marks or angle measures.



5. Draw the $\overline{CL}$. (You will have to label point L on the triangle). Make sure to include any important tick marks or angle measures.
6. Match each word with its point of intersection.

Altitude	Centroid
Angle Bisector	Circumcenter
Median	Incenter
Perpendicular Bisector	Orthocenter

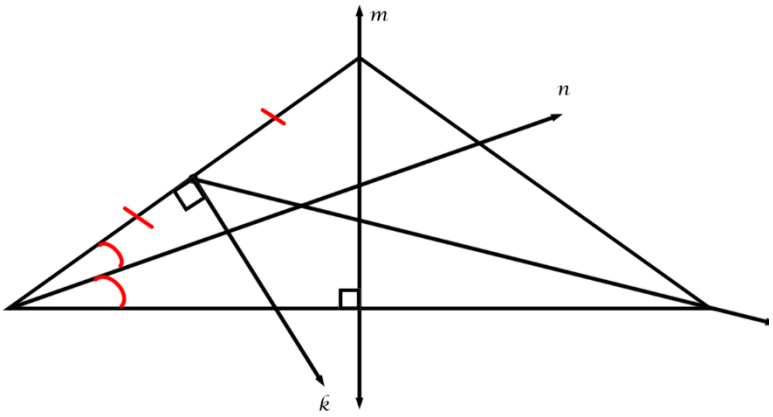
7. Match the line with each vocabulary word.

Altitude

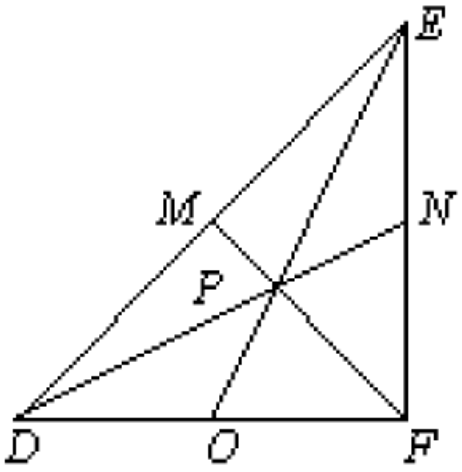
Angle Bisector

Perpendicular Bisector

Median

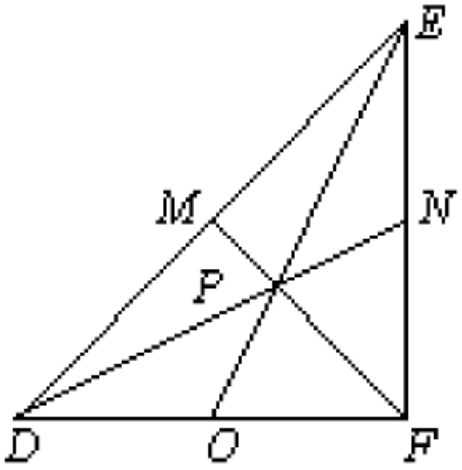


8. In △DEF, $\overline{DF}, \overline{EO}, \overline{FM}$ are medians.



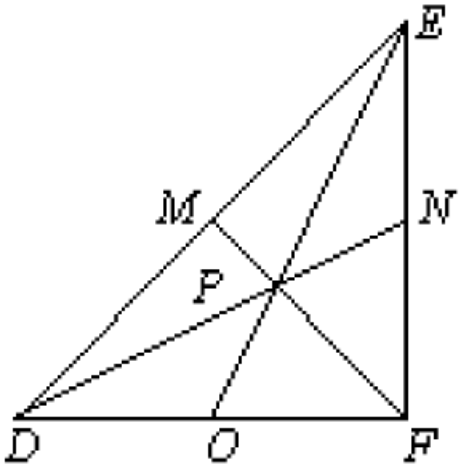
If DE=44, Then DM=_____
If PD=12, Then DN= _____

9. In △DEF, $\overline{DF}, \overline{EO}, \overline{FM}$ are medians.



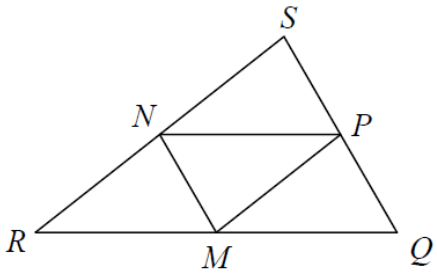
If DO=8, Then FD= _____
If OE=36, Then EP= _____ and OP_____

10. In △DEF, $\overline{DF}, \overline{EO}, \overline{FM}$ are medians.



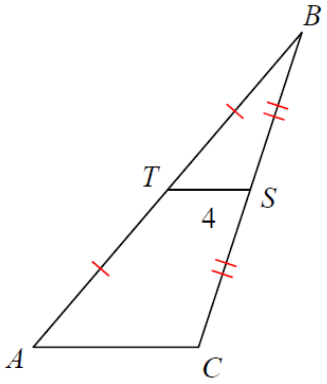
If MP=12 then PF= _____

11. Name all three pairs of parallel segments



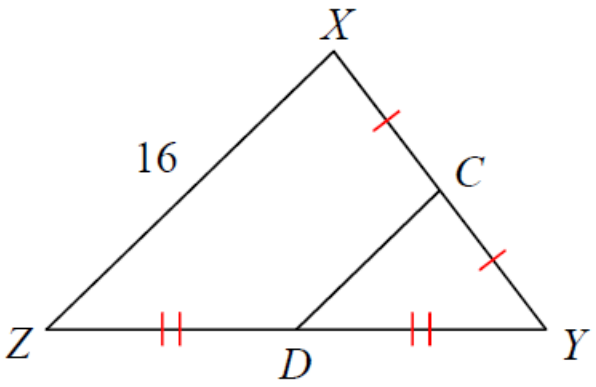
12.

Find AC



13.

Find CD



14. Can a triangle have the following sides? Explanation required.

7, 5, 4

15. Can a triangle have the following sides? Explanation required.

6, 3, 2

16. Name the range of possible third side of the triangle if the two other sides are

6, 10

17. Name the range of possible third side of the triangle if the other two sides are

14, 11

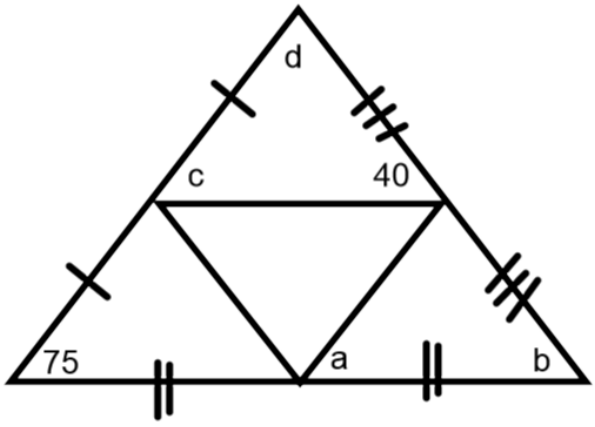
18. List the angles of $\triangle ABC$ from least to greatest if AB=10 BC= 12 and AC= 24

19. List the angles of $\triangle DEF$ from greatest to least if DE=3, EF=4 and DF= 5

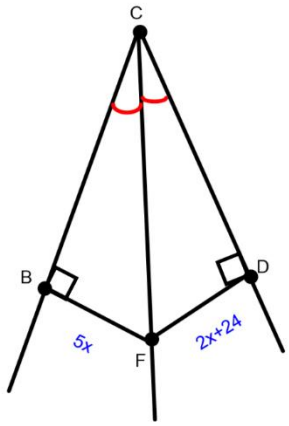
20. List the sides from longest to shortest in $\triangle ABC$ if $<A=120$ $<B=40$.

21. List the sides from shortest to longest in $\triangle DEF$ if $<D=50$, $<E=75$.

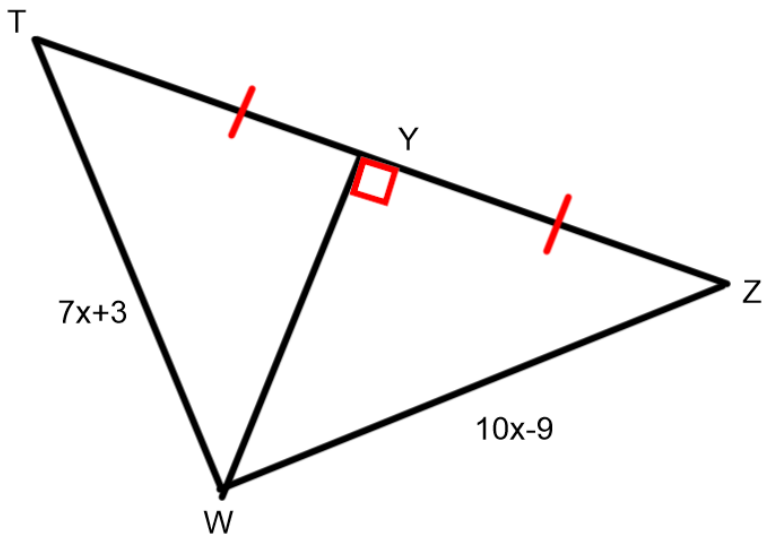
22. Determine the values of the angles.



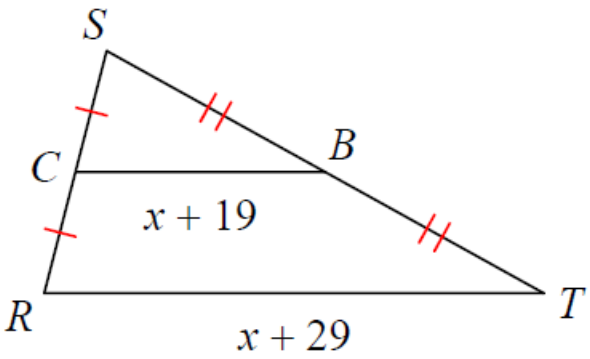
23. Find the value of x, then find FB, and FD.



24. Find x and then find TW and WZ.



25. Find the value of x.



26.

1. _____ Altitude
2. _____ Angle Bisector
3. _____ Concurrent
4. _____ Median
5. _____ Midsegment
6. _____ Perpendicular Bisector
7. _____ Point of concurrency

A. A segment connecting the midpoints of two sides of a triangle.
B. Where three or more lines intersect.
C. A line, segment, or ray that is perpendicular to the segment at its midpoint.
D. A segment whose endpoints are a vertex and the midpoint of the opposite side.
E. A ray that divides an angle into two congruent angles.
F. The perpendicular segment from a vertex to the line containing the opposite side of a triangle.
G. When 3 or more lines intersect in one point.

27. Draw three triangles. (Acute, right and obtuse) Then draw an altitude for each. Make sure you include any important tick marks or angle measures.