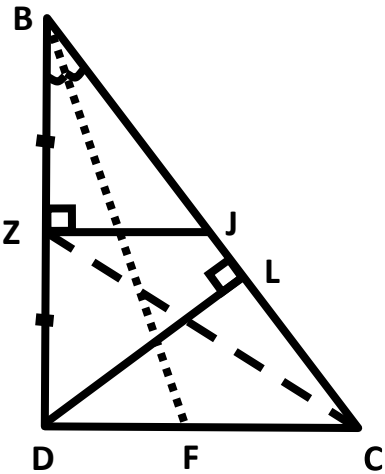


Segment Name	Point of Concurrency	Special Quality	Goes to Midpoint	Starts at Vertex
Perpendicular Bisector				
Angle Bisector				
Median				
Altitude				

Yes, No, Centroid, Circumcenter, Incenter, Orthocenter, equidistant from sides, equidistant from vertices, 2/3 distance from vertex, center of gravity, None

Match the segment with the corresponding part in picture.

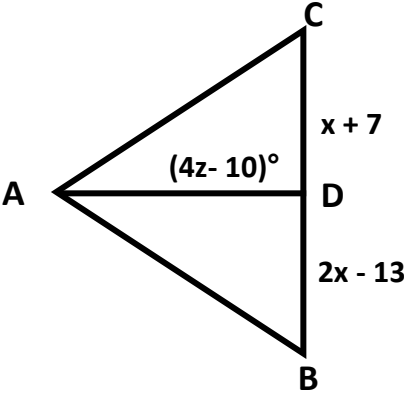
- Altitude
- Angle Bisector
- Median
- Perpendicular Bisector
- BF
- CZ
- JZ
- DL



Segment	Picture	Problems
		Angle = 90° Sides = each other
		½ Angles = each other Total = 2 (1/2 angle)
		Sides = each other POC is 2/3 from vertex
		Angle = 90° Sum of Δ ∠s = 180

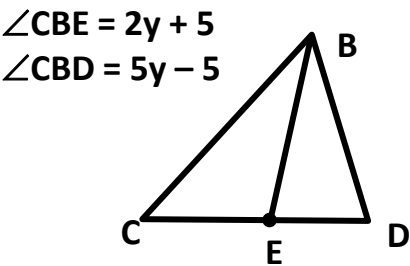
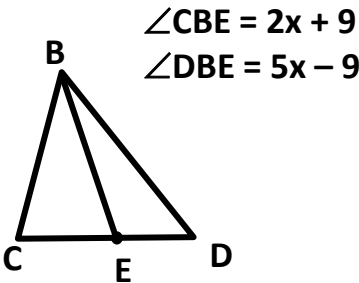
Problems involving Perpendicular Bisectors

AD is a perpendicular bisector find x and z



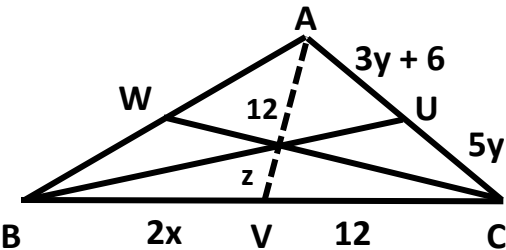
Problems involving Angle Bisectors

BE is an angle bisector, find x and y



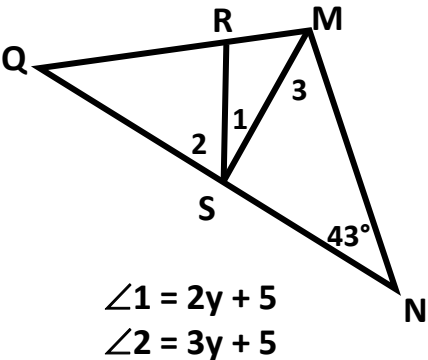
Problems involving Medians

AV, CW and UB are medians, find x, y, and z



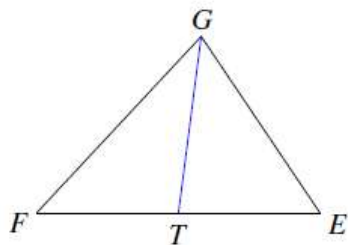
Problems involving Altitudes

MS is an altitude, find y, and m∠1, ∠2, ∠3

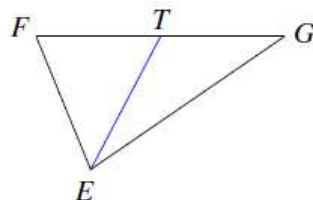


Each figure shows a triangle with one or more of its medians.

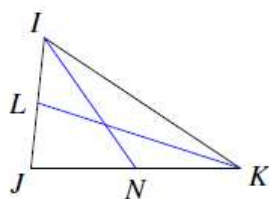
1) Find FE if $TE = 8$



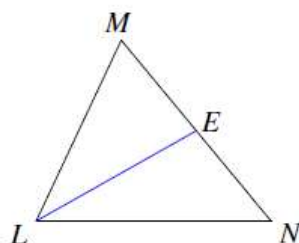
2) Find GF if $TF = 6.3$



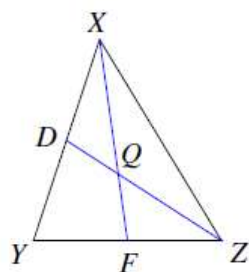
3) Find LJ if $IJ = 6$



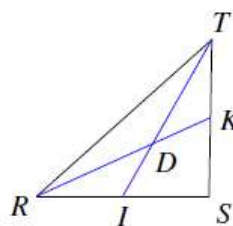
4) Find NM if $EM = 10$



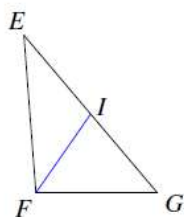
5) Find ZQ if $ZD = 6$



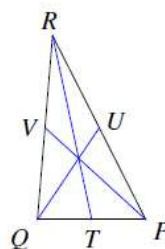
6) Find RK if $DK = 3.4$



11) Find x if $GE = 3x + 5$ and $IE = x + 6$

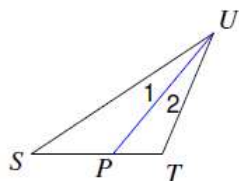


12) Find x if $TP = 2x + 1$ and $TQ = 3x - 5$

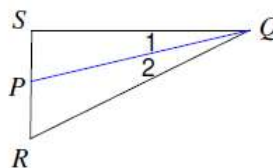


Each figure shows a triangle with one of its angle bisectors.

1) $m\angle SUT = 34^\circ$. Find $m\angle 1$.

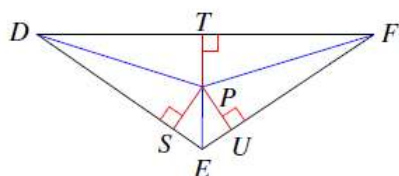


2) Find $m\angle SQR$ if $m\angle 2 = 13^\circ$.

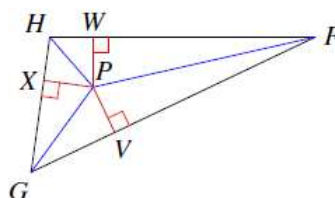


Each figure shows a triangle with its three angle bisectors intersecting at point P.

3) $PT = 3$. Find PU .

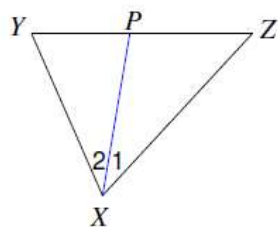


4) Find PV if $PW = 7$.

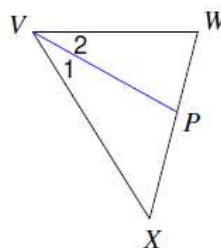


Each figure shows a triangle with one of its angle bisectors.

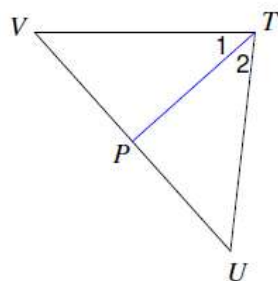
13) Find x if $m\angle 2 = 4x + 5$ and $m\angle 1 = 5x - 2$.



14) Find x if $m\angle 2 = 1 + 28x$ and $m\angle XVW = 59x - 1$.



15) $m\angle 1 = 7x + 7$ and $m\angle VTU = 16x + 4$. Find $m\angle 1$.



16) Find $m\angle 2$ if $m\angle 2 = 7x + 5$ and $m\angle 1 = 9x - 5$.

