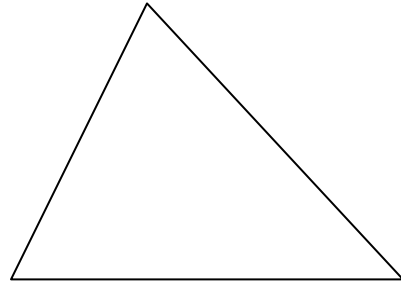# 5-2 Medians and Altitudes of Triangles

Use your book to define and draw all of the following.

Median - _____

_____

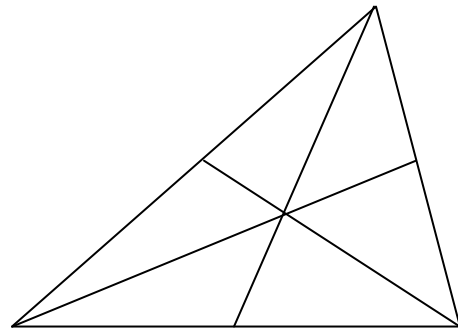*draw the medians

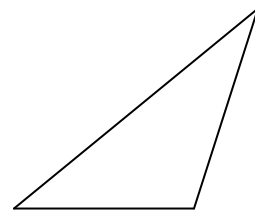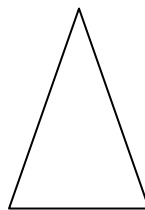Name the point of concurrency: _____

Centroid Theorem

If P is the centroid of ΔABC, then

AP = _____, BP = _____, and CP = _____
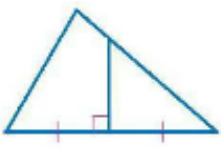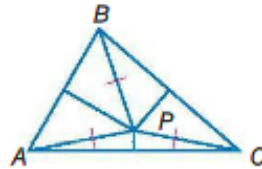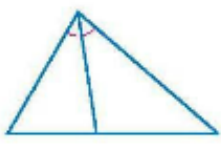
Altitude - _____

_____

*Draw the altitudes

Name the point of concurrency: _____

ConceptSummary Special Segments and Points in Triangles

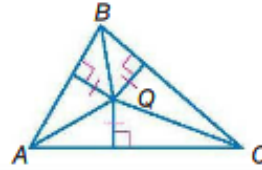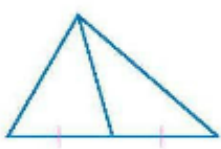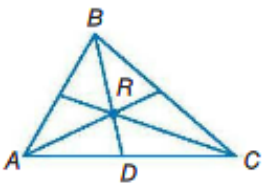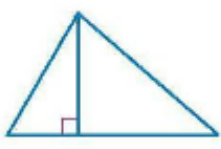| Name	Example	Point of Concurrency	Special Property	Example
perpendicular bisector		circumcenter	The circumcenter P of $\triangle ABC$ is equidistant from each vertex.	
angle bisector		incenter	The incenter Q of $\triangle ABC$ is equidistant from each side of the triangle.	
median		centroid	The centroid R of $\triangle ABC$ is two thirds of the distance from each vertex to the midpoint of the opposite side.	
altitude		orthocenter	The lines containing the altitudes of $\triangle ABC$ are concurrent at the orthocenter S.	