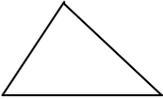
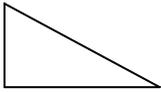
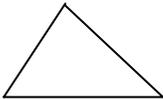
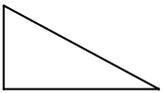
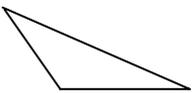
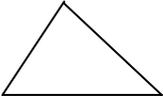
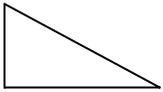
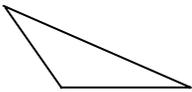
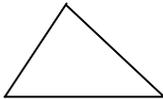
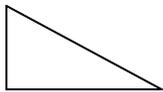


Concurrent Lines in Triangles Chart

Complete the table below for concurrent lines in triangles. Sketch the three indicated lines on the acute, right and obtuse triangles shown. Describe the location of the point of concurrency in each of these triangles. List the special features of each of the points of concurrency.

Lines	Drawing	Location of Point of Concurrency	Name of Point of Concurrency	Special Features of Point of Concurrency
Medians				
				
				
Perpendicular Bisectors				
				
				

Concurrent Lines in Triangles Chart (Continued)

Lines	Drawing	Location of Point of Concurrency	Name of Point of Concurrency	Special Features of Point of Concurrency
Angle Bisectors				
				
				
Altitudes				
				
				

- Answers:
- The point of concurrency of the medians of a triangle meet inside the triangle at the point called the centroid, or the center of gravity.
 - The point of concurrency of the perpendicular bisectors meet inside, outside, or on the triangle at the point called the circumcenter, which is the center of the circumscribed circle about the triangle.
 - The point of concurrency of the angle bisectors of a triangle meet inside the triangle at the incenter, which is the center of the circle inscribed in the triangle (meets all three sides of the triangle).
 - The point of concurrency of the altitudes of a triangle meet either inside, outside, or on the triangle and is called the orthocenter of the triangle.