12.3 Constructions
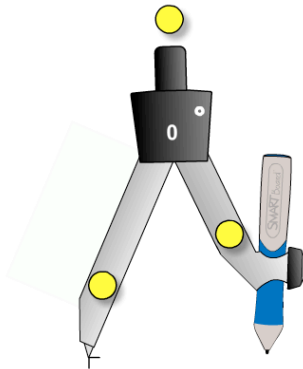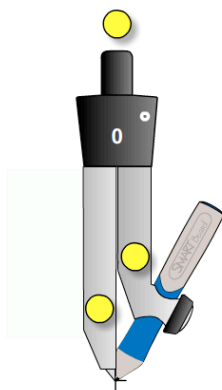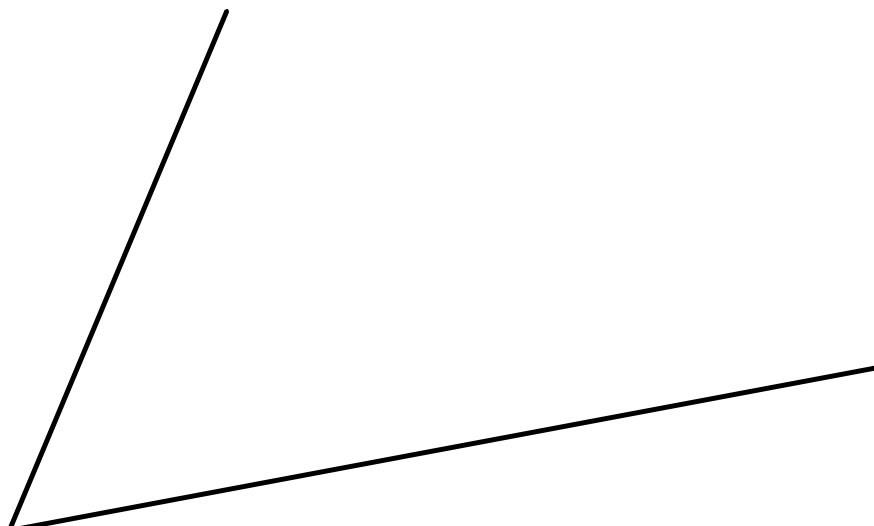
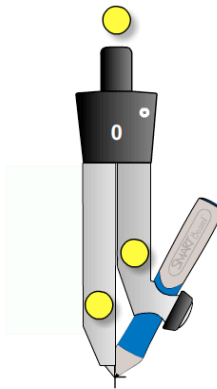(with compass and straight edge)

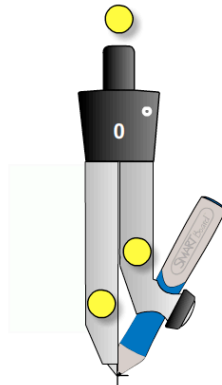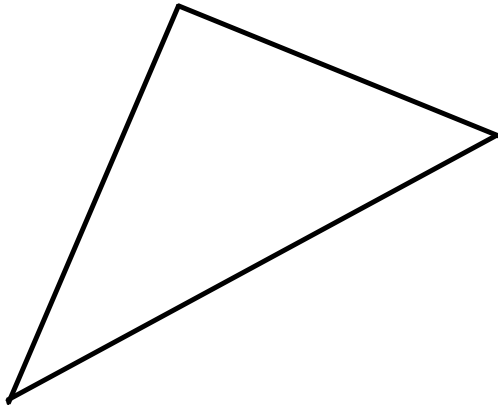1. Copy a segment

2. Bisect a segment

3. Bisect an angle

4. Draw a perpendicular from a point to a segment

5. Create the incenter of a triangle.

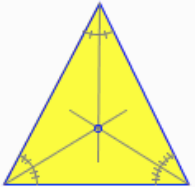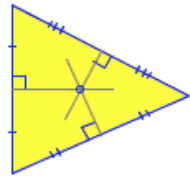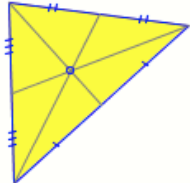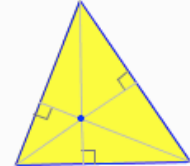# There are four types of centers for triangles:

	Incenter Located at intersection of the angle bisectors. See Triangle incenter definition and How to Construct the Incenter of a Triangle
	Circumcenter Located at intersection of the perpendicular bisectors of the sides See Triangle circumcenter definition and How to Construct the Circumcenter of a Triangle
	Centroid Located at intersection of the medians See Triangle centroid definition and Constructing the Centroid of a Triangle.
	Orthocenter Located at intersection of the altitudes See Triangle orthocenter definition and Constructing the Orthocenter of a Triangle.

Table taken from http://www.mathopenref.com/trianglecenters.html