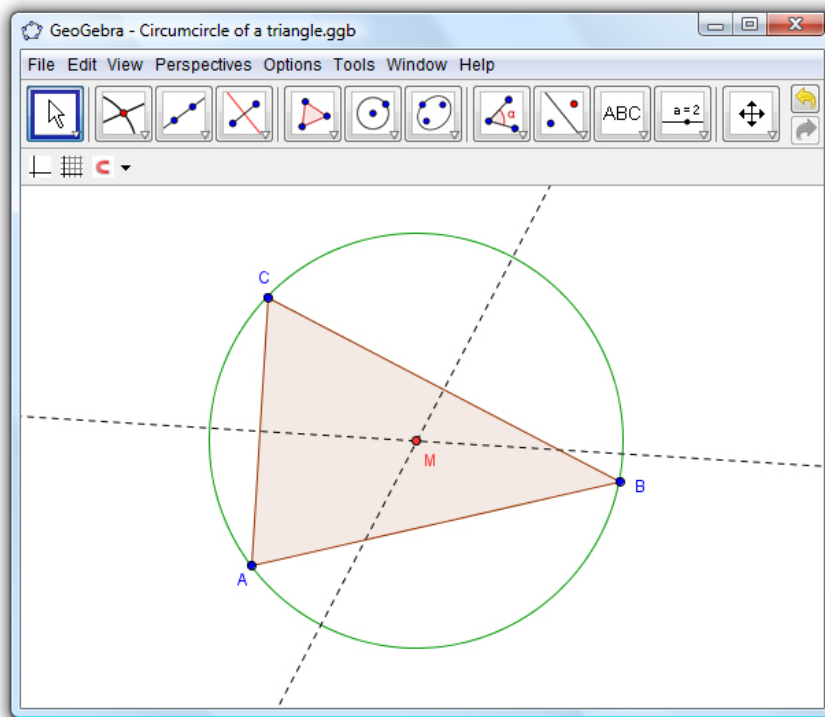# Example 1: Circumcircle of a Triangle

Task*: Construct a triangle A, B, C and its circumcircle using GeoGebra.*

Construction Using the Mouse

Preparations

- Open the *Perspectives* menu and select *Geometry*.

Construction Steps

1		Choose the tool *"Polygon"* from the toolbar. Now click on the graphics view three times to create the vertices *A*, *B*, and *C*. Close the triangle by clicking on point *A* again.
2		Next, choose the tool *"Perpendicular Bisector"* (click on the small arrow at the fourth icon from the left) and construct two line bisectors by clicking on two sides of the triangle.
3		Using the tool *"Intersect Two Objects"* you can click on the intersection of both line bisectors to get the center of your triangle's circumcircle. To name it *"M"*, right-click on it (Mac OS: ctrl-click) and choose *"Rename"* from the appearing menu.
4		To finish your construction, choose the tool *"Circle with center through point"* and click first on the center, then on any vertex of the triangle.
5		Using the *"Move"* tool you can now use the mouse to drag the triangle vertices around - your construction will change dynamically with them.