

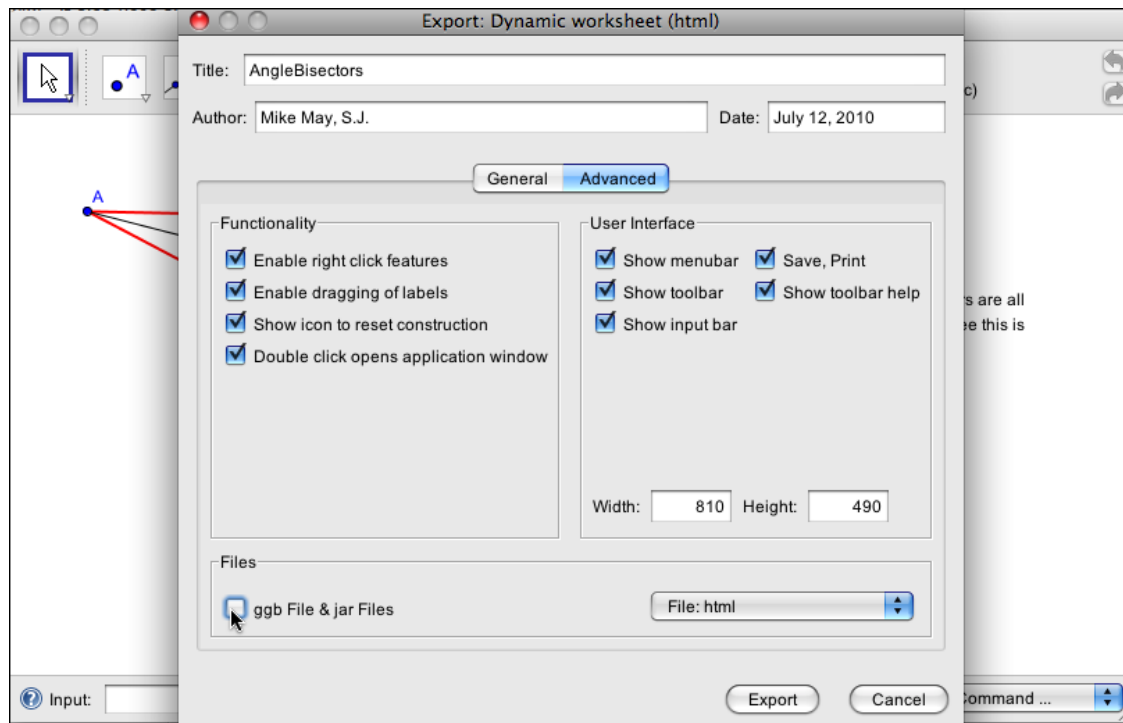
# prep11geogebra: Tutorials: Adding an applet into a wiki page

There are three basic approaches to adding a GeoGebra Applet to this wiki.

1. We can view the wiki as a file storage space and then simply link to the pages as we would for other files. We lose some of the wiki features, but it is easier to setup and move files. We can then have a web page that includes the GeoGebra file within the applet tag using ggbBase64. We then link to the GeoGebra jar file at the central server.
2. As in the first case, we can view the wiki as a file storage space, but use local files so we are reproducing the file structure we would want if we were to run the applet locally and offline.
3. We can do the insertion within the wiki structure. This lets us edit the page with the nice editing tools provided with the wiki. It also uses all of the nice security features of the wiki. However we then are limited by those same features and the resulting pages become hard to move to another setting.

This page walks through the third method with the first applet we created showing that the three angle bisectors of a triangle all meet in one point.

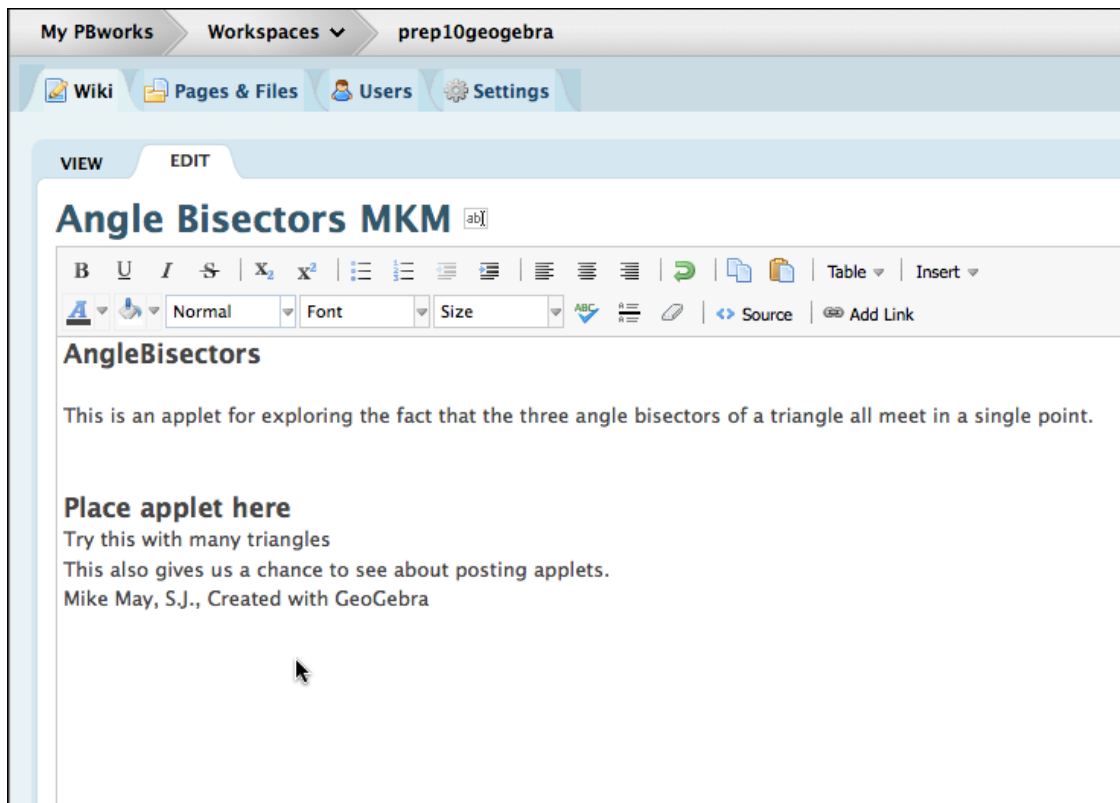
The first detail occurs when we export the applet. We will export the applet twice. Under the advanced tab in the export dialog, we want to export once with the button at the bottom in the Files section that indicates "ggb Files & jar Files" selected and once with it unselected.



Then we create the applet as before.

From exporting with the "ggb Files & jar Files" button selected, we will produce a file named "AngleBisectorsMKM.ggb". Upload that file to the wiki.

Next we use the wiki to create a page in the usual way, with a place left where we will put the applet.



Now for the tricky part. We are going to open the two html files we created from our exports with a text editor and locate the applet tags. That is a block of code that starts with "`<applet>`" and ends with "`</applet>`". We will need elements from each version.

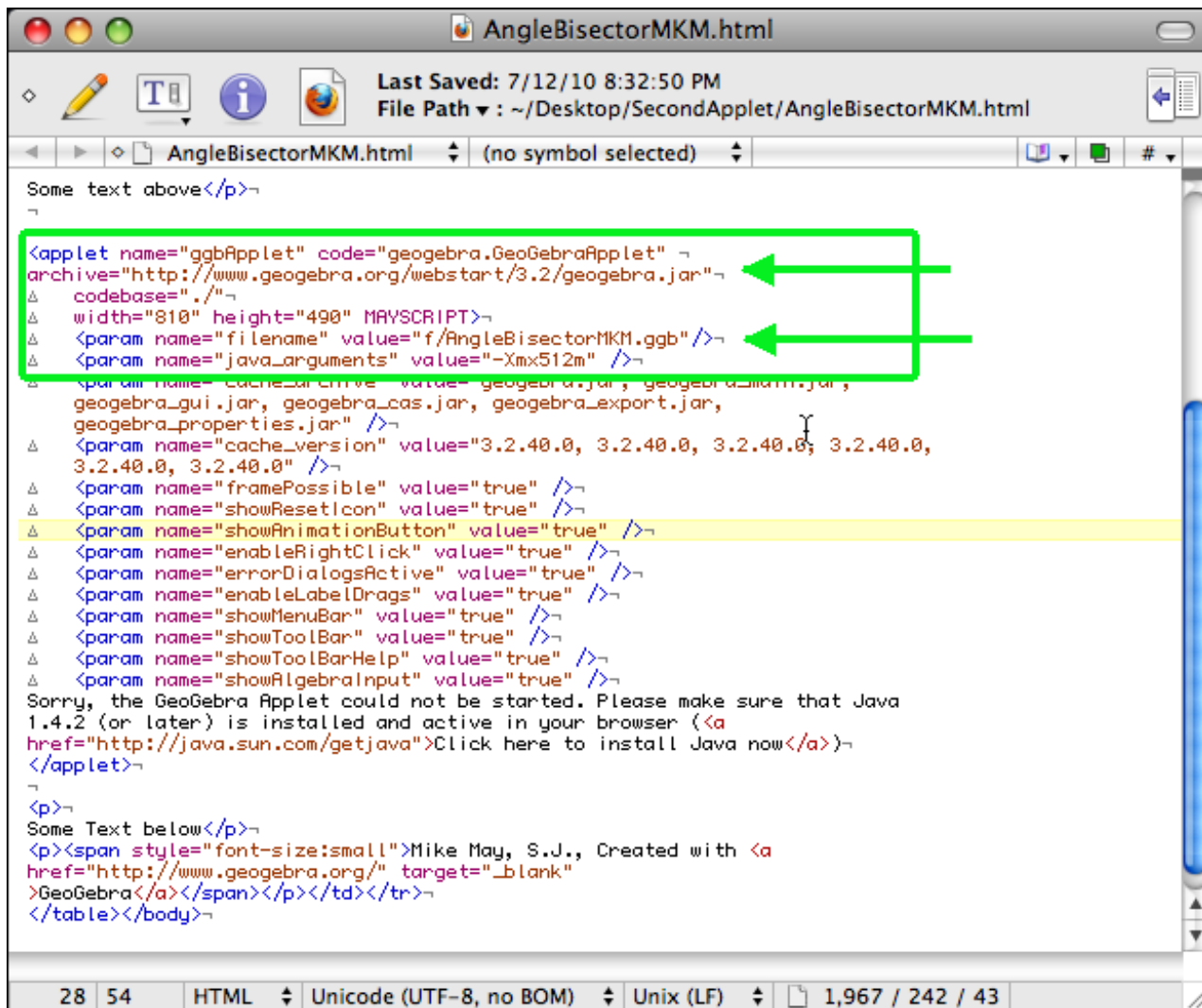
We start with the tag produced by exporting with the "jar Files" box unselected. That file has a long codebase. This says that files, like the "geogebra.jar" file are located on a server at [www.geogebra.org](http://www.geogebra.org). This tag also has the details of the GeoGebra construction turned into a long ggbBase64 code string. Unfortunately, the string is typically so long that we can't use the applet string with the wiki.

```
<table border="0" width="810">
<tr><td>
<h2>AngleBisectors</h2>
<p>
Some text above</p>
</tr>
</table>
<applet name="ggbApplet" code="geogebra.GeoGebraApplet" archive="geogebra.jar"
codebase="http://www.geogebra.org/webstart/3.2/"
width="810" height="490" MAYSCRIPT>
<param name="ggbBase64"
value="UESDBBQACARlAB2g7DwAAAAAAAAAAAAAAAAAAAAAAZ2VvZ2VlcmEueG1s3Vrbcts4En3e+
qJH8q4jTtH8rV7LFB9L4G1g2L79;wJgHhUKLJ9ULf...
zr5dT7J0Y2t6qwsehGJcYRskZbDrBj1oLlZdaSjX9/8dDKy5cg0qgRdlDUkaXoRi2nk7LPszU//
0KnH5S1Kct/
ln8ze9qKrJK9th0ppZzNhPba22bAns3m4Z0m1uBj816ZnVWoIq5wX0xnM0lQzskWT4ces7i6P/
YTPGt+
y26yoa1QXqa9SApY0vz1L62aLE3yXsRxsNBer081gom51nFZZXdL0bjUq8GvwIJQnd1Z8Ah1tpNj
/6Andpbm2TBLcVcwfh3QCahbbNiMe5EmbkibjcaNm52F0dKyrIaXi7qxEzT/
j61KWA4RzTGLcMXCVQ3rpggkF9k3rV34Ye3NpmwZggVEytyuHjapsuHFxXp+W+
co0Lb0i0UumzazymLLWdNks3AQwV+UW3C9Gu11tBFw+
tun1oJx+fBiewMPTnxdtf4hc0GJ2VeVmhyrLXQl f2cxrA+rA+30mUv7P tg36Mdw26bCeG+h7+cxrA+
fa88K8LS2icn3VMT3E2T1cgZnBuBisuHz50BBWgJNCuy5mN3ARS4Xj2qu+
H32WQAMbB0gu4Y5LnGPDm+r5+
Ta1sVNg8kKQDbWtmr0V0jY5jLL2Ro02wCl6GhdUni4PoTFhCsQzuqbLfwEEHBVb4VrxPxnvnkuFu
EW0MNa00bkaJ4nsY9i6fFaVZDjJZV7ek2gZjPRZ+ya4s+JYt/ocv433GEhkkDvSM3zW1ZXfuA/
2znDUoG5Q20XJYT15qLAFc1uf0pt/u03uBXZHM7sRCBjWebJ+vS66fRUm5KrxYdRrTtk/yg+
UHmeY4m+XScgKULrjxZgl6s08uP96kcbrowKQAK7x8156kbwIE9tXbYamfTRgiawpA+
3ta09ADUa07U0U3l1c1CJW0k13Yw7facQnE5W/
MSsZU7wySPe0ftrvK0L9w6JKT3M02k5mSTFEBXJxLH0jPzdeyVz0wpKs0MQSohzVvDERFk2n1Xh2
kG2nF23wy3JGPy9kqdmDCpQ2BqCnq+e9vgpoHSS2snlk0FZd6uQeP1HeCfjmBKz/q0E9/kR4TEm6
/235HjP89q/i9CnDqKYTDHTrNm6fTcEeC8aEAirZecbeH7tnbqtpyL4n0VFLVLPUKfNUX9orjo/
xhxccRioLvZMNSgMPq7RqN/
YGD0X1tgK09VFWMeqE9prBXWL5nvBwB6ug3o6YGAnr4qQCHA2lakyRA2M1tVhbI4YhBLEzI9fLsCQ
iM9u9e5uH9e49wul914e9e39Fwdf3uRT0069ku9uMS+
```

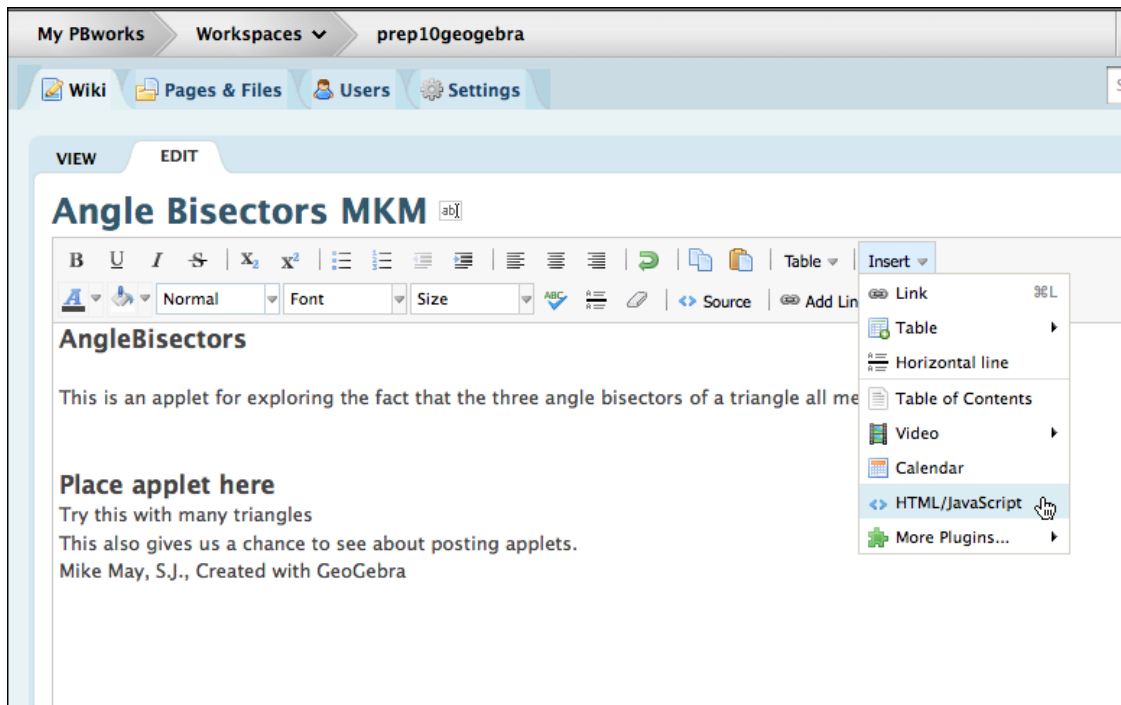
We now turn our attention to the other html file, the one constructed with the "jar Files" box checked. This export creates a series of files. Notice that this time the codebase is ".", which means the browser is told to look in the same location as the html file for other files that are called. We also notice that the filename parameter calls for a file called "AngleBisectorMKM.ggb".

```
<h2>Angle Bisectors</h2>
<p>
Some text above</p>
<applet name="ggbApplet" code="geogebra.GeoGebraApplet" archive="geogebra.jar"
codebase="." width="810" height="490" MAYSCRIPT>
<param name="filename" value="AngleBisectorMKM.ggb" />
<param name="java_arguments" value="-Xmx512m" />
<param name="cache_archive" value="geogebra.jar, geogebra_main.jar,
geogebra_gui.jar, geogebra_cas.jar, geogebra_export.jar,
geogebra_properties.jar" />
<param name="cache_version" value="3.2.40.0, 3.2.40.0, 3.2.40.0, 3.2.40.0,
3.2.40.0, 3.2.40.0" />
<param name="framePossible" value="true" />
<param name="showResetIcon" value="true" />
<param name="showAnimationButton" value="true" />
<param name="enableRightClick" value="true" />
<param name="errorDialogsActive" value="true" />
<param name="enableLabelDrags" value="true" />
<param name="showMenuBar" value="true" />
<param name="showToolBar" value="true" />
<param name="showToolBarHelp" value="true" />
<param name="showAlgebraInput" value="true" />
Sorry, the GeoGebra Applet could not be started. Please make sure that Java
1.4.2 (or later) is installed and active in your browser (<a
href="http://java.sun.com/getjava">Click here to install Java now</a>)
</applet>
<p>
Some Text below</p>
<p><span style="font-size:small">Mike May, S.J., Created with <a
href="http://www.geogebra.org/" target="_blank"
>GeoGebra</a></span></p></td></tr>
</table></body>
</html>
```

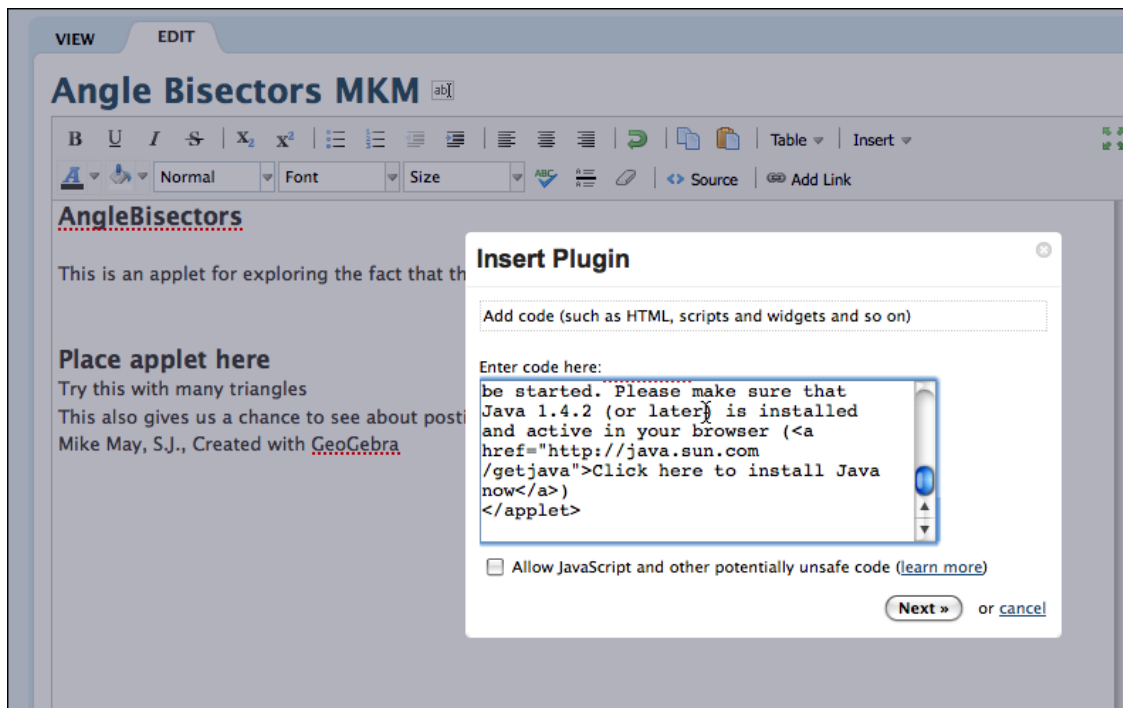
For the modified tag we want to use a local ggb file and a remote jar file. We change the name of the archive to the full url at the geogebra server. We also change the filename to add "f/" in front of the filename. In our case it goes from "AngleBisectorMKM.ggb" to "f/AngleBisectorMKM.ggb". That will make the browser look for the file in the correct spot in the wiki file system.



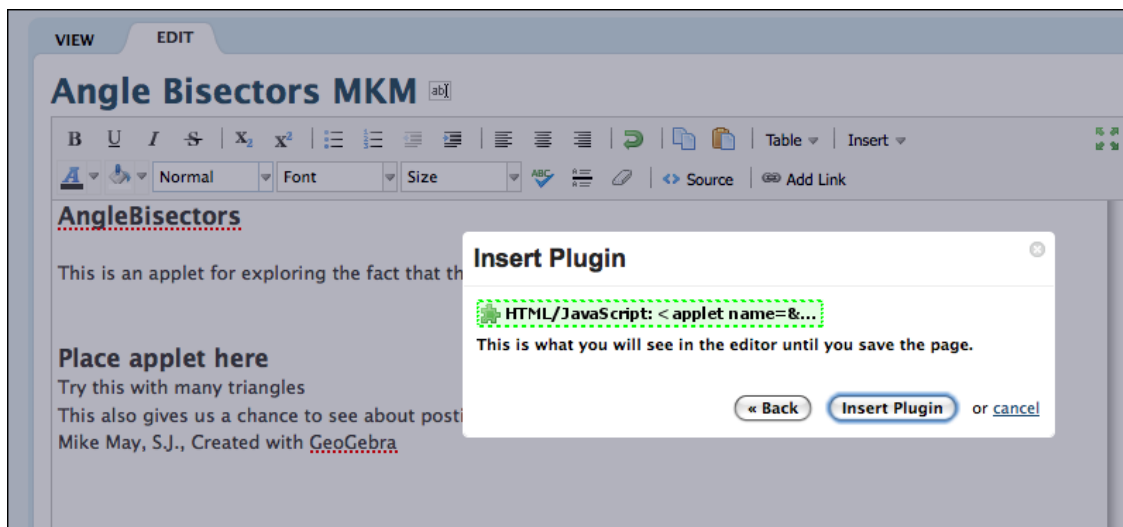
Next we go back to the wiki page and select the "Insert" menu and select "HTML/JavaScript" from that menu.



In the appropriate box we add our applet tag. Be sure to select the "Allow JavaScript and other potentially unsafe code" button,



We then see a screen that gives us a last chance to insert the plugin or to cancel. Choose "Insert Plugin".



When we get back to the page we are editing, we see the same box we saw in the preview. Click save at the bottom of the page. (If you want to edit the applet tag, double click on the green box.)

My PBworks Workspaces prep10geogebra

Wiki Pages & Files Users Settings

VIEW EDIT

## Angle Bisectors MKM

B U I S  $x_2$   $x^2$  Table Insert

Format Font Size Add Link

### AngleBisectors

This is an applet for exploring the fact that the three angle bisectors of a triangle all meet in a single point.

HTML/JavaScript: `<applet name=&...`

### Place applet here

Try this with many triangles  
 This also gives us a chance to see about posting applets.  
 Mike May, S.J., Created with [GeoGebra](#)

We now have a page with a working applet.

My PBworks Workspaces prep10geogebra

Wiki Pages & Files Users Settings

VIEW EDIT

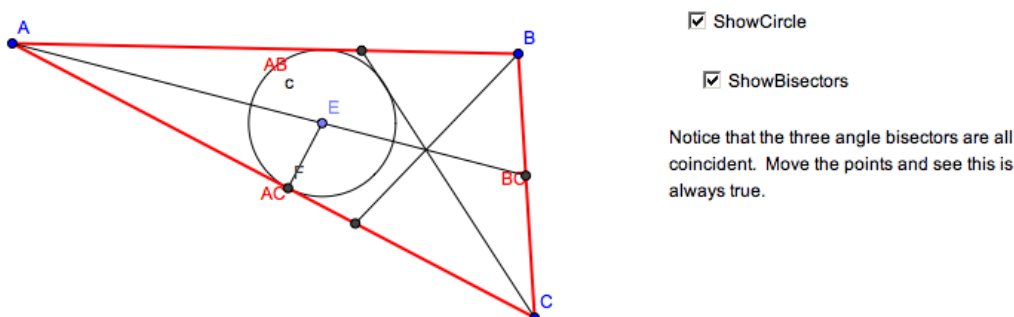
## ★ Angle Bisectors MKM

last edited by Mike May, S.J. 59 mins ago

### AngleBisectors

This is an applet for exploring the fact that the three angle bisectors of a triangle all meet in a single point.

File Edit View Options Tools Help



ShowCircle

ShowBisectors

Notice that the three angle bisectors are all coincident. Move the points and see this is always true.

Click for a pdf version of this wiki page [AddingAppletToWiki.pdf](#)

Modified 7/3/2011