






Making a Smiley (or scary) Face Using Geometer's Sketchpad

1. Begin by drawing a large circle. Use the circle tool, which looks like this: 
2. Draw a vertical diameter. Click on this tool on the left: . Hold it down until you see three buttons appear: . These buttons are for drawing segments, rays or lines. We want to draw a line, so select this one: 
3. Draw a triangle and construct its interior for the right eye. Click on this tool  again, but this time select the segment button. Use three segments to make the triangle.
4. Reflect the triangle over the vertical diameter for the left eye.
5. Draw another triangle that uses the vertical diameter for the right side of the nose.
6. Draw a polynomial to make the right side of the mouth. Make it as complicated as you like.
7. Hide the vertical diameter and all points.