GeoGebra Tutorial: **Coloring a Closed Region**

1. Select the regular polygon tool. Click (0,0) and (4,0). Enter "4" for the number of vertices. You should get a square. Set it transparent and black.

2. Using the semi-circle tool and the arc tool, create two semi-circles and an arc as shown in the first figure.

3. Using the point tool, create five more points E, F, G, H and I as shown in the second figure. Then draw three arcs *in the same, say anti-clockwise, direction* with the arc tool.

4. Input: **list1={h,k,p}** (where h, k, p are the names of the above three arcs).

5. Input: **Dummy=Point[list1]**. You should get a free point which can be moved around the boundary of the enclosed region.

6. Input: **Dummy2=Dummy**

7. Input: **Locus[Dummy2,Dummy]**. You should get a locus object of which the color and opacity can be set.

8. Hide all unnecessary objects.