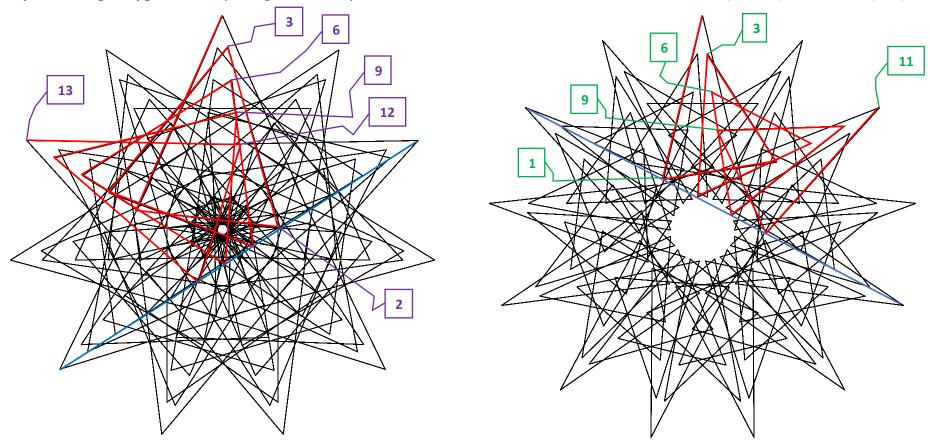
Shape-shifting Polygons: Comparing the first cycle from n = 11, S = 13 with n = 13, S = 11 for P = (n*S+1)/3 = 48; J = (n-1)/2.



The above images show the first **S**-length cycle in red (from polygonal vertex to polygonal vertex) for two 143-line images (n*S = 143). The left image has 11 cycles of **13** and the right image has 13 cycles of **11**. Every third point is noted as is the cycle end. Both images are shape-shifting triangles. The left is a counterclockwise-two-times-around image (first cycle ends at vertex 2).

Both images have "about" **4** "triangles" per cycle since $S = 4*3 \pm 1$. An easy way to see the "four-ness" of the triangles in each cycle is to note that there are 4 triangle bottoms which are successive points on a single vertex frame line (shown in blue) in each image. To watch the triangles create each image, click *Toggle Drawing* after connecting to each link below:

The left image bottoms are on the 8th line of the vertex frame from vertex 2 to vertex 7 (note: J = 5 and S = 13 here) with point 2, 5/13 of the way from vertex 2 to vertex 7 (note: 2*48 = 96 = 7*13 + 5). https://www.playingwithpolygons.com?vertex=11&subdivisions=13&points=48&jumps=5

The right image bottoms are on the 5th line of the vertex frame from **vertex 11 to vertex 4** (note: J = 6 and S = 11 here) with point 1, 4/11 of the way from vertex 11 to vertex 4 (note: 1*48 = 4*11 + 4). https://www.playingwithpolygons.com?vertex=13&subdivisions=11&points=48&jumps=6