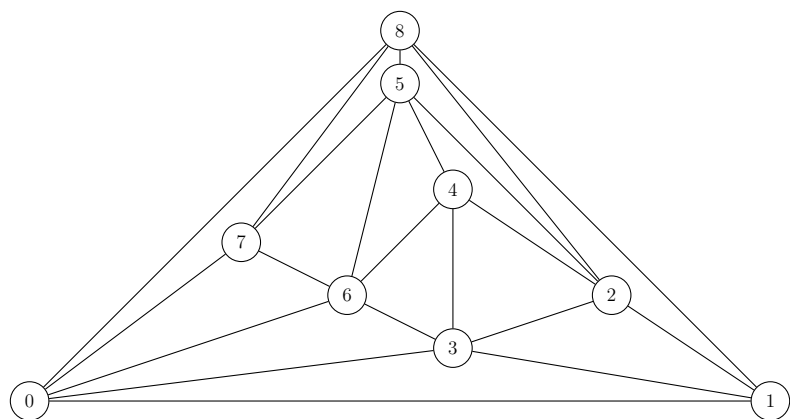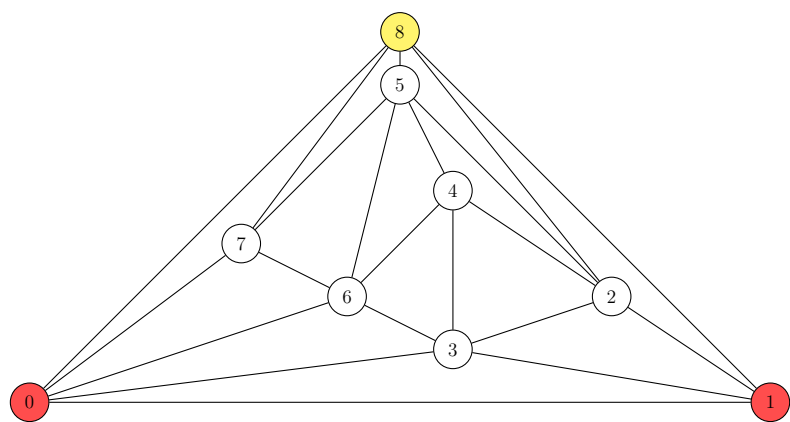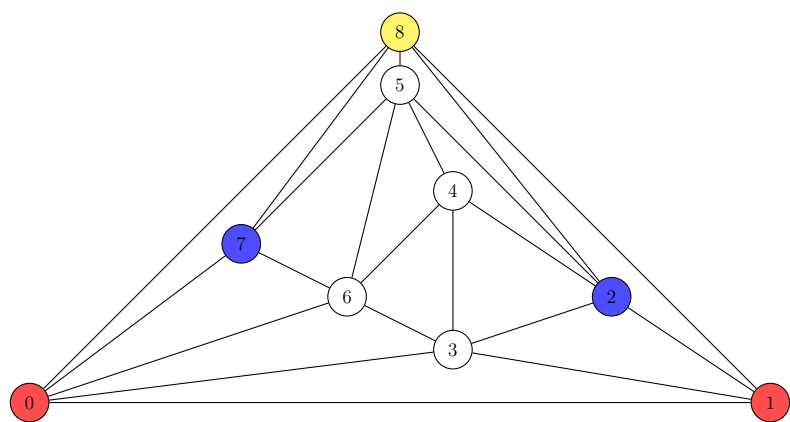# Poh Path 3-Coloring Algorithm for Triangulated Plane Graphs
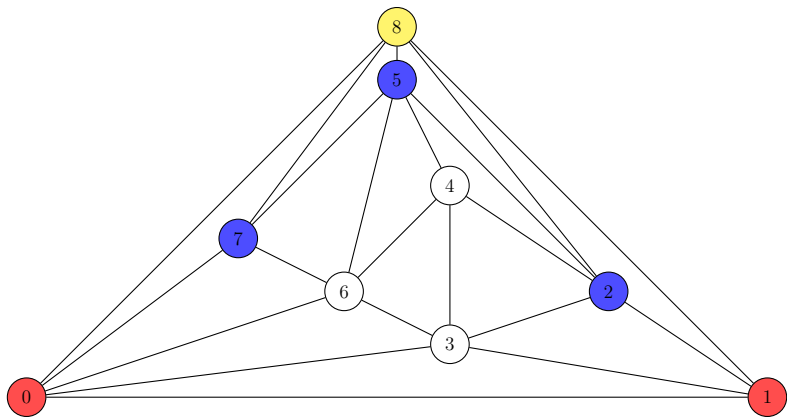

Coloring the above maximally planar graph with the Poh path coloring algorithm.
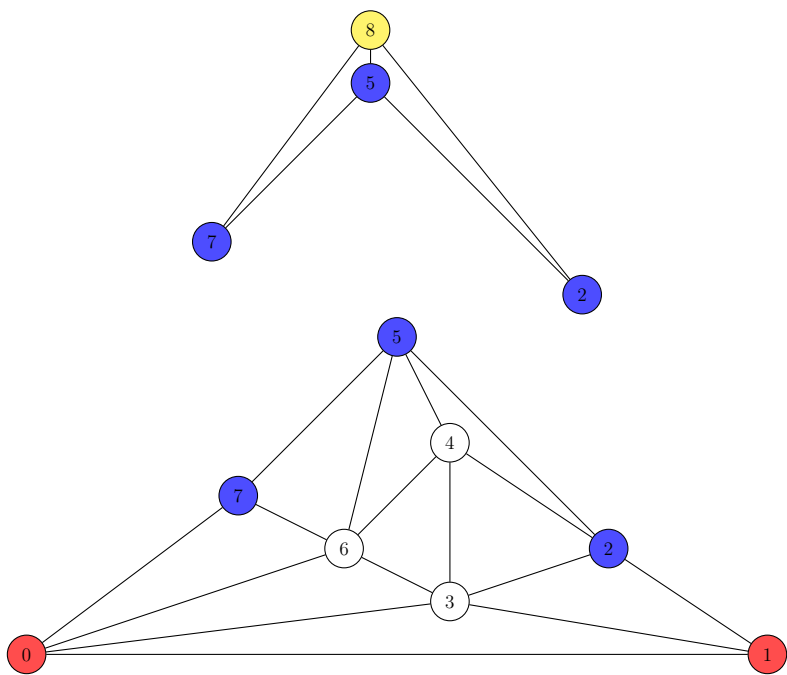

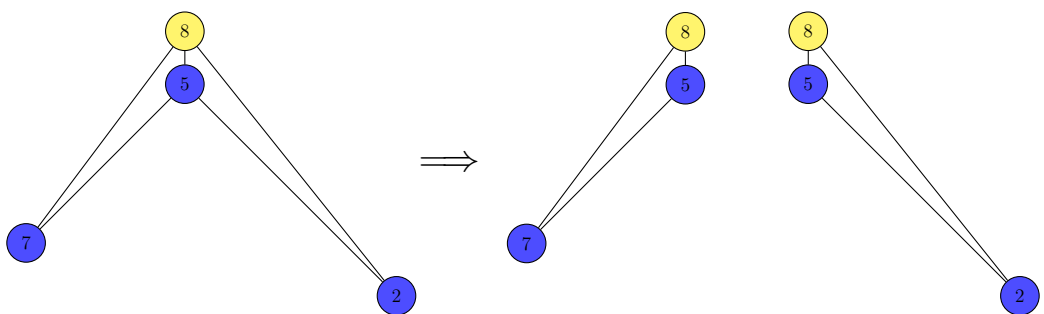1) Initial coloring of outer face.
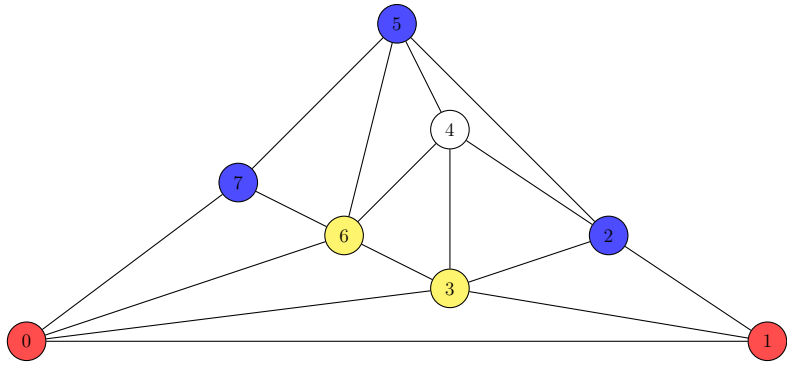

2) Find triangulating vertices.

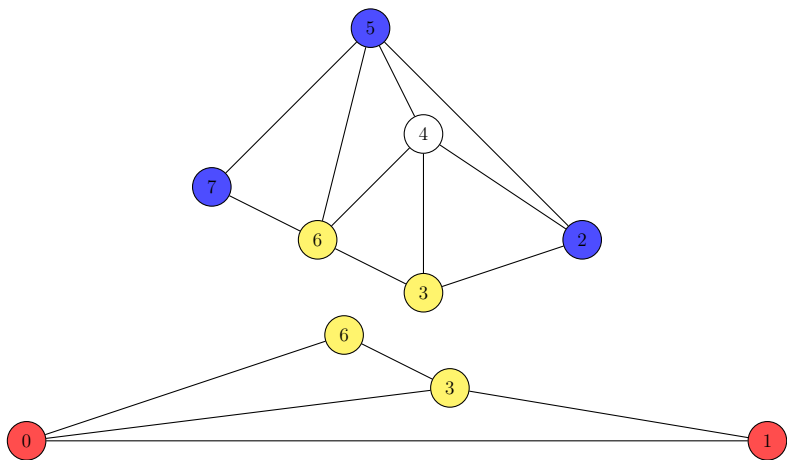3) Find shortest path between triangulating vertices.
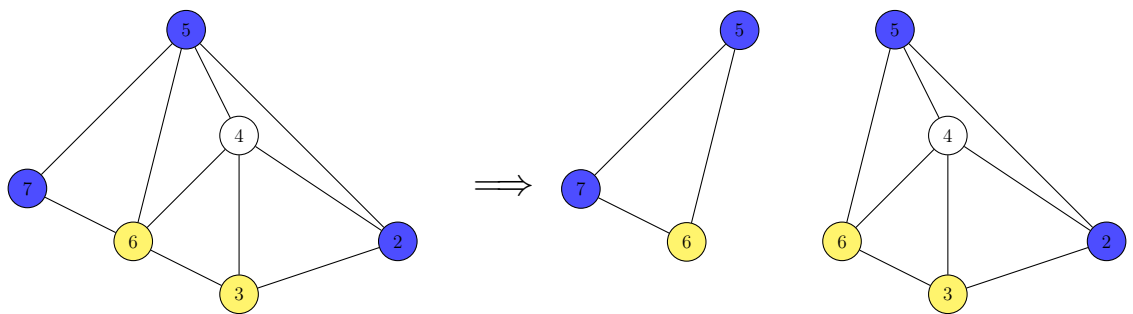

4) Split along path.

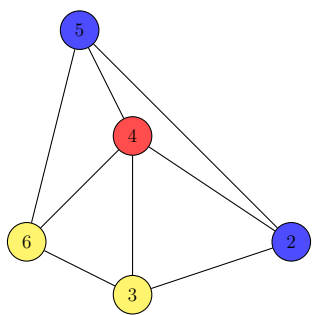5) Recurse on top and split on bridging edge.

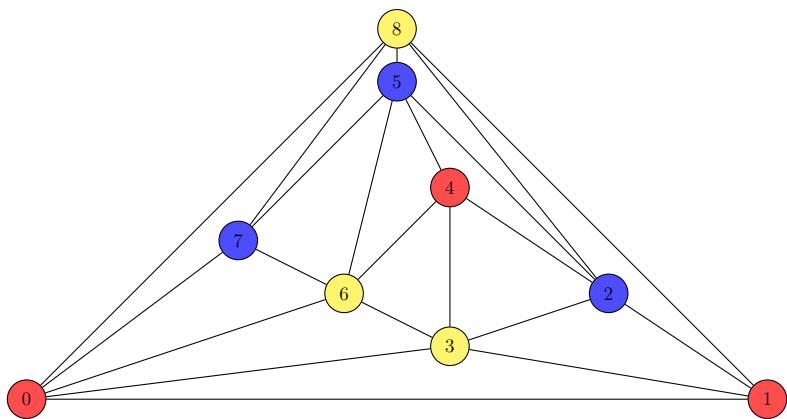6) Recurse on bottom and find triangulation vertices.

7) Split along path.

8) Recurse on top and split along bridging edge.

9) Find triangulation vertices and splitting path.

Done!