Math 3890, Machine Problem 9: Due Tu., 3/23/21

- 1) Write a function [x,y,TRI] = refinect(xo,yo,TRIo) that finds the CT refinement \triangle of an initial triangulation \triangle_o described by xo,yo,TRIo. The vectors x,y should contain the barycenters of the triangles in \triangle , while TRI gives the connection matrix.
- 2) Write a script to test your function. It should
 - a) call readtri to read a triangulation from a file
 - b) call refinect and print [x, y]
 - c) plot the refined triangulation \triangle
 - d) Run your script for the file tri8.dat
- 3) Modify your function refinect to create a function refinecti which uses the incenters instead of the barycenters.
- 4) Repeat your test run using the modified refinement function instead of **refinect**. As before, plot the refined triangulation and print its [x, y] coordinates (they will be different than those in 2)).