

Name :

Math 170 – 9 –

Draw a graph in which there is no Euler path. (recall that an Euler path is a path which goes through all the edges without going through the same edge twice).

Draw a graph which is not planar. (recall that a planar graph is one which cannot be drawn on a piece of paper without intersecting edges)

Calculate the Euler number (number of vertices – number of edges + number of faces) of an octahedron. (two pyramids stuck together at the bottom, a 3D shape with 8 faces.) Do the same for a pyramid and a cube.