Problem 1. I have drawn a graph on the torus with no edges crossing. Find a planar drawing of this graph.


Problem 2. Show that that the following graph is not planar:


Problem 3. Show that that the following graph is not planar:


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Problem 4. Here, again, is the Peterson graph.


Find a drawing of this graph on the torus such that no two edges intersect.

Problem 5. Find a plane graph with 13 vertices and 33 edges. (Thus $q=3 p-6$.)
Problem 6. Color this in four colors:


