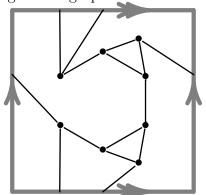
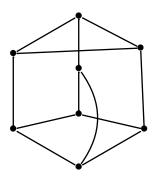
HW 7

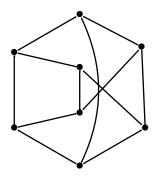
Problem 1. I have drawn a graph on the torus with no edges crossing. Find a planar drawing of this graph.



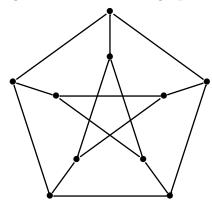
Problem 2. Show that the following graph is not planar:



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



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 = 3p - 6.)

Problem 6. Color this in four colors:

