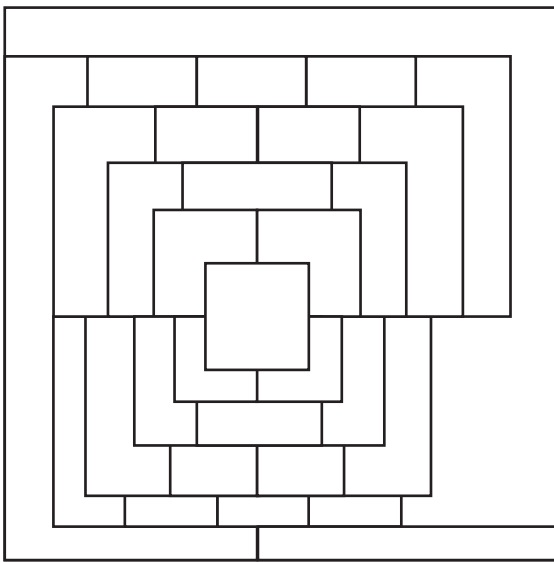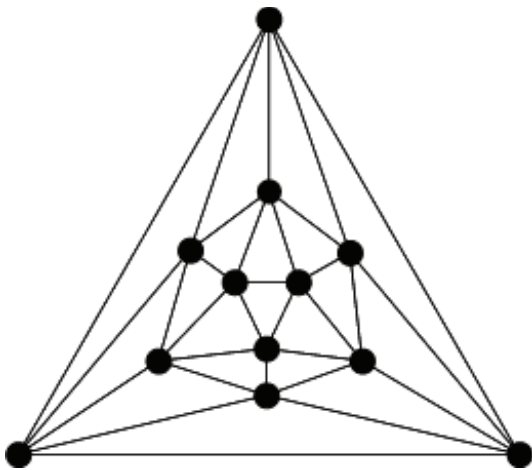# Beauty of Mathematics Decal PSET #6

Due 10/25

1. Color the following map using only four colors. (This map is adapted from a bigger one by Martin Gardner, which he used as an April Fool's hoax to claim a counterexample to the four color theorem.)

2. Color the following graph using only four colors.

3. Draw a graph that can't be colored with four colors. (Remember that the four color theorem only applies to planar graphs, that is, graphs that can be drawn without any edges crossing.)