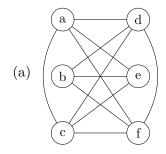
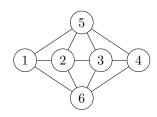
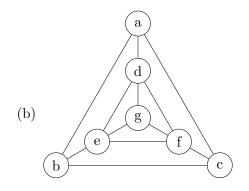
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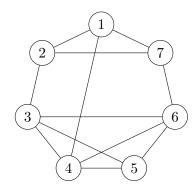
Directions: Show all work. No credit for answers without work.

1. [2 parts, 2 points each] Decide whether the following pairs of graphs are isomorphic. If they are isomorphic, give the function that establishes the isomorphism. If not, explain why.









2. [2 points] Let G be a planar embedding of a connected graph with 95 vertices and 158 edges. Including the infinite region, how many regions are there?

- 3. [2 parts, 2 points each] A graph G is self-complementary if G is isomorphic to its complement \overline{G} .
 - (a) How many edges are there in an n-vertex self-complementary graph?

(b) Give an example of a 4-vertex self-complementary graph.