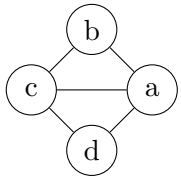
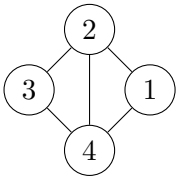
Name: _____

Unless told otherwise, show your work. Answers without work earn reduced credit.

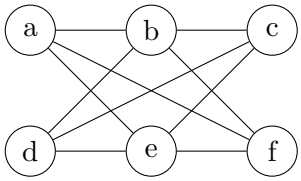
1. [**3 parts, 1 point each**] Decide whether the following pairs of graphs are isomorphic. If they are isomorphic, give the function that establishes the isomorphism. If not, explain why.

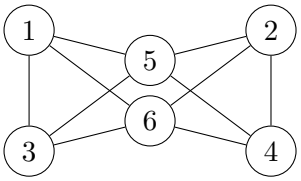
(a)



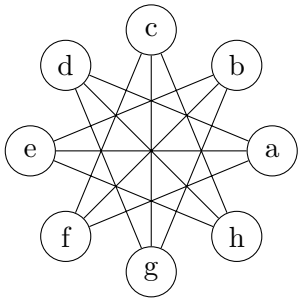


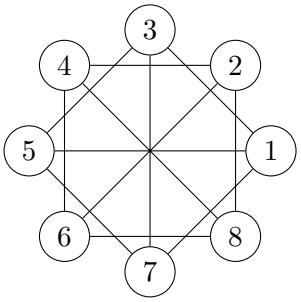
(b)





(c)





2. [**2 points**] Prove that if t is a positive integer, then $K_{2,t}$ is a planar graph.

3. [**1 point**] Sketch a full binary tree of depth 2.

4. [**2 points**] Draw the expression tree for $[(2 \times x) + ((y - x) \times (z - 1))] - (x \div 3)$.

5. [**2 points**] Write the list of nodes resulting from a preorder traversal, an inorder transversal, and a postorder transversal of the following ordered tree.