# MAT385 Quiz 09, Spring 2025

**Name:**

1. (3 pts) Draw all the nonisomorphic simple graphs with four nodes. There are eleven. Organize them by numbers of arcs.

2. (3 pts) A tree with nodes a, b, c, d, e, and f has preorder traversal abcdef, and inorder traversal bacdef. Draw a tree that satisfies these conditions.

3. (4 pts) Decide if the two graphs are isomorphic. If so, give the function or functions that establish the isomorphism; if not, explain why.



(a)

(b)