

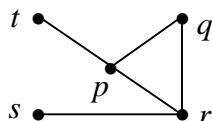
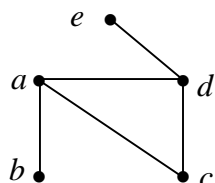
Name \_\_\_\_\_

University of Baltimore  
Math 321: Discrete Structures  
Chapter 8.3-6(D): Graphs, part 2

Date \_\_\_\_\_

BECAUSE THIS IS A GRADED ASSIGNMENT, YOU MAY NEITHER GIVE NOR RECEIVE HELP. Answer each question as indicated. **Think** first, then write. **Show all your work**, and remember to **check** your answers! Place your answers in the spaces provided.

1. Determine whether or not the two graphs below are isomorphic and, if they are, indicate the correspondence of the vertices.



2. Specify a simple path from  $b$  to  $e$  in graph A and state its length.
3. Determine whether or not graph B contains a simple circuit and, if it does, specify the path.
4. Find the length of the shortest path between  $c$  and  $f$  in the weighted graph below.

