

Eric Rouse

Individual Assignments #58

Assignment: *Section 9.4: 12 (a,b,c), 16*

Q12

- a) Not strongly connected but weakly connected.
- b) Strongly connected (and so also weakly connected).
- c) Not strongly or weakly connected.

Q16

By definition of strongly connected there exists a path from a to b. If other vertices are used in this path then they are also strongly connected because any point in this graph can be reached by any other point. This is the very definition of strongly connected. Thus every vertex is a member of said strongly connected graph.