Quick Quiz Solutions, CSE101, October 12, 2010

Student Name ____________________ Student ID ____________________

1. Circle the strongly connected components in this graph. (50 points)

SCCs: \{1\}, \{2\}, \{5\}, \{3, 4\}, as illustrated by different colors in the graph
Notes: 10 points for each of the first three SCCs and 20 points for the last SCC.

2. Draw a depth-first tree for this graph, setting the root at the node 6. (50 points)

Notes: The red edges indicate one DFS tree starting from node 6. The DFS tree
is not unique. There is no point deduction if you did not draw the back edges.
However, if you did draw the back edges but made a mistake, some points were
taken off.