5. Draw the configuration space of the robot for the root workspace below. (10 points)

6. Draw the visibility diagram for the robot workspace below. (10 points)
7. Consider the graph below.

a. Write down the order in which nodes are expanded by Breadth First Search starting at node A. Assume that alphabetic order is used to break a tie when deciding among several nodes (i.e. choose the letter that comes first in the alphabet). (10 points)

b. Write down the order in which nodes are expanded by Depth First Search starting at node A. Assume that alphabetic order is used to break a tie when deciding among several nodes (i.e. choose the letter that comes first in the alphabet). (10 points)