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**M.31: Find a spanning tree within a graph using depth-first and breadth-first search.**

Consider the graph:



1. Draw a spanning tree for this graph that is obtained through a depth-first search starting from node 0. Only the final tree will be graded; its nodes must be clearly labelled and it must be correct.
2. Draw a spanning tree for this graph that is obtained through a breadth-first search starting from node 0. Only the final tree will be graded; its nodes must be clearly labelled and it must be correct.