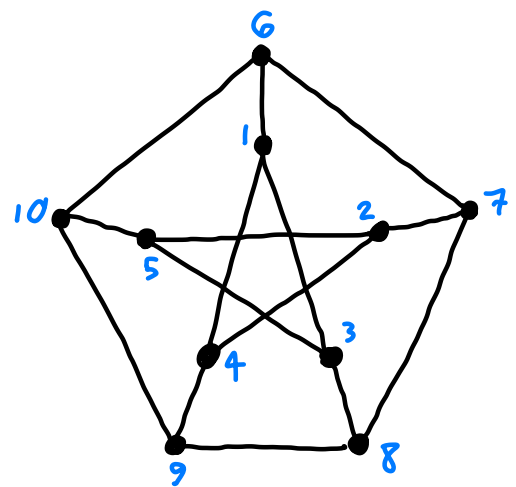
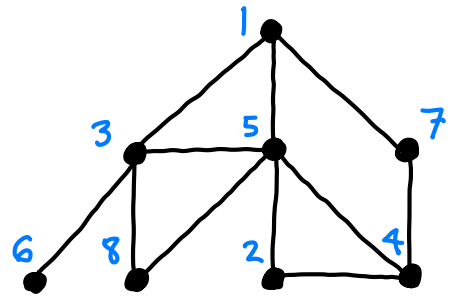


Depth-first search (DFS)

- start at v
- connect v to its first neighbor u
- connect u to its first available neighbor (rejecting choices that would create a cycle)
- continue in this way until stuck
- backtrack just enough to find an available edge
- repeat extending/backtracking until all vertices reached

Try it out!
(start at root vtx $v=1$)



What order were the vertices added?