MTH 337, Sample Quiz 6 Spring 2022

You will have 15 minutes to take the actual quiz.

- 1. Write a function to create a star graph using Network X. (A star graph consists of a central node surrounded by n outer nodes, each of which is connected to the central node by a single edge.)
- 2. Display the complete graph on 10 nodes using the circular layout with node labels turned on.
- 3. The complement of a graph G is the graph comp(G) having the same list of nodes, but opposite edges. That is, the edge (i, j) is included in comp(G) if and only if it is **not** included in G. Write a python function that takes a graph G as input and returns its complement comp(G).