1. (4 points)
Heavily thicken the edges of the minimum spanning tree of the following graph.

2. (4 points)
for i = 1 to 5:
    add-set(i)
union(1,2)
find(5)
union(3,4)
union(1,4)
find(1)

Write the parent for each element after executing the above code. Assume we use both union by rank and path compression.