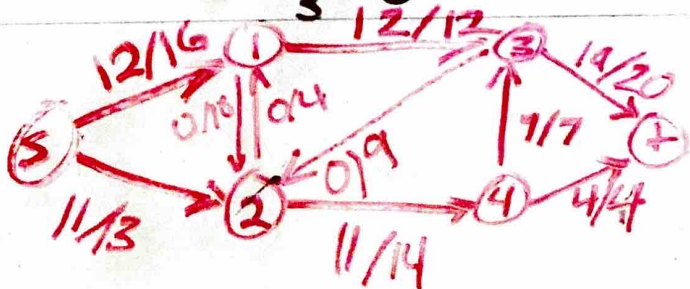
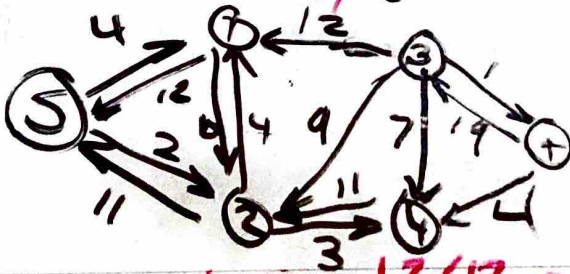
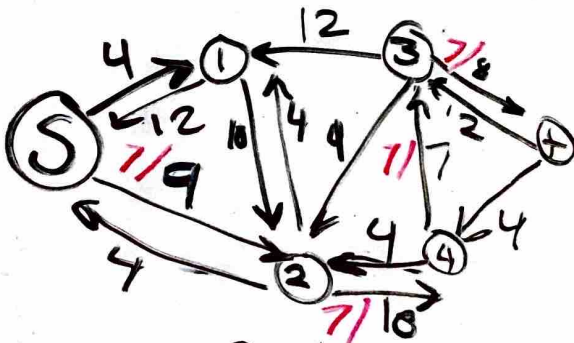
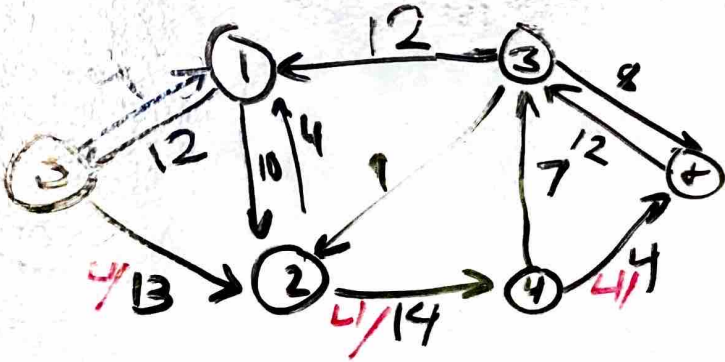
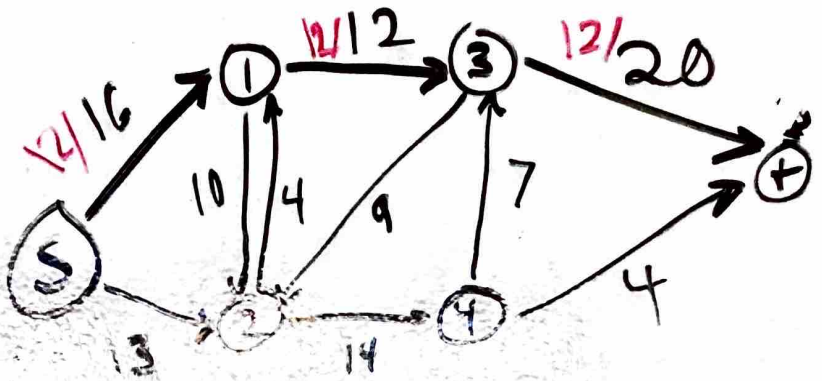


Verify that there are no vertices not on a path from S to T using DFS, checking if we a) hit the vertex at all and b) if the vertex is on a path that doesn't end with it.

2



Max Flow = 23

3). Dijkstra's can be used on graphs w/ negative edge weights.

False. The algorithm does not work on these graphs.

• The runtime of Bellman Ford's all pairs shortest path is generally slower than Floyd-Warshall on a well-connected graph.

False. $BF = O(V^2 E)$, $FW = O(V^3)$

if well connected, $E \geq V$
• BFS has a runtime of $O(V^2)$ if the graph has a representation of an adjacency matrix

True. BFS loops through each entry in the matrix.