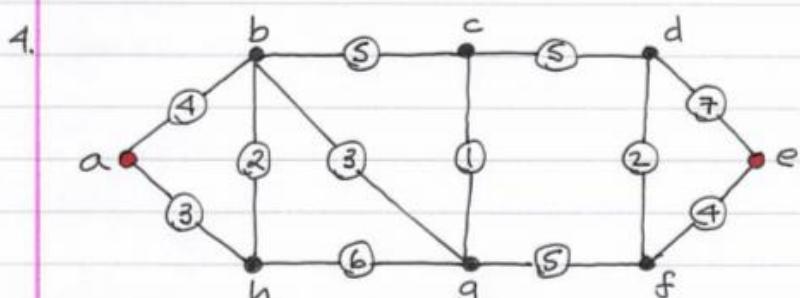
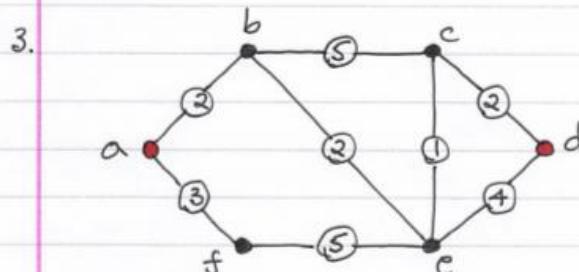
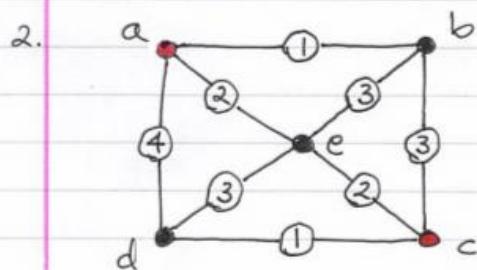
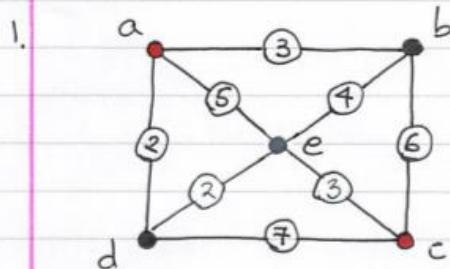
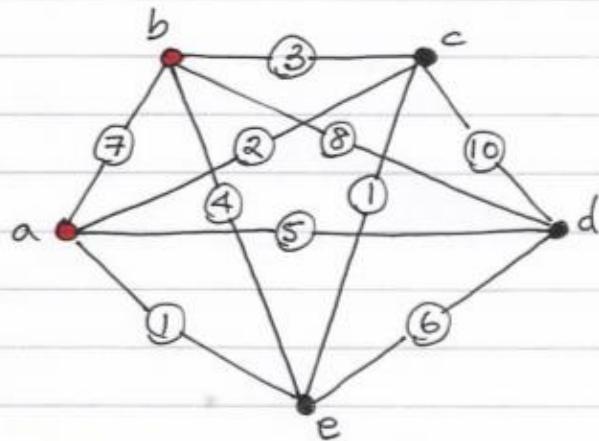


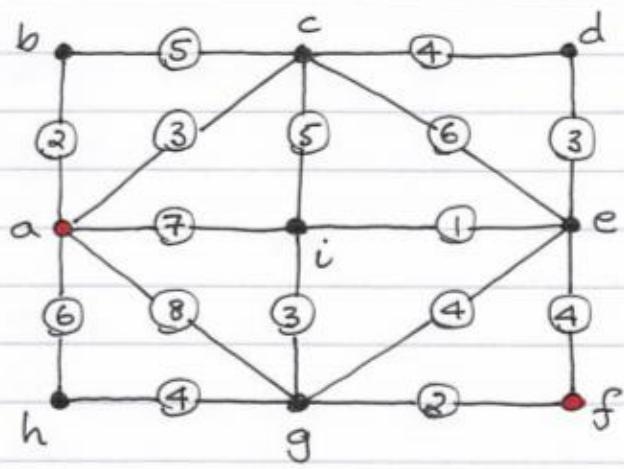
For each of the following weighted graphs find the shortest path between the two vertices marked in red, using Dijkstra's Algorithm.



5.

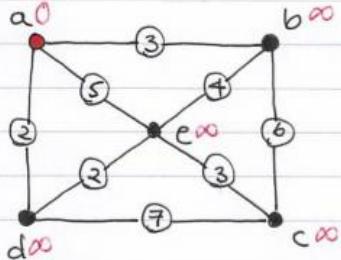


6.

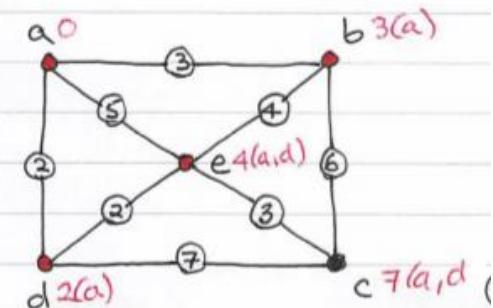
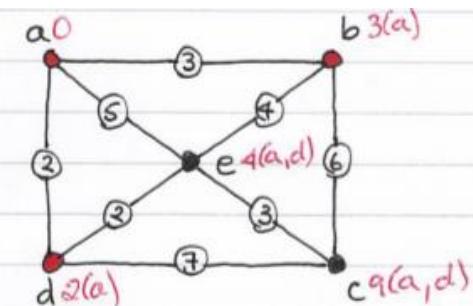
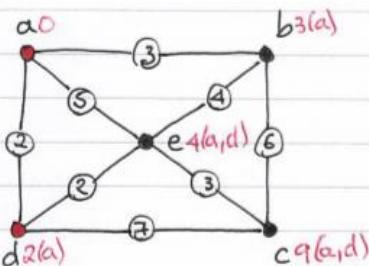
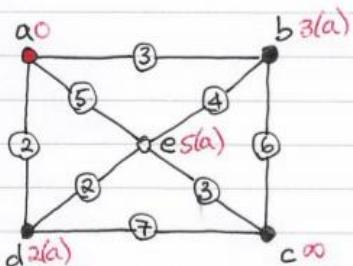


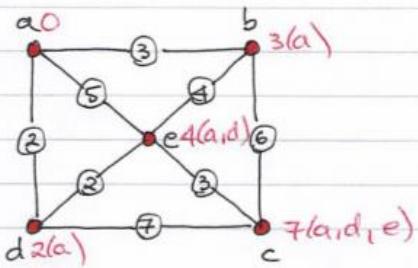
Answers

1.

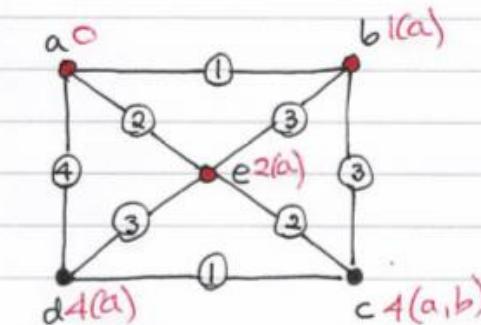
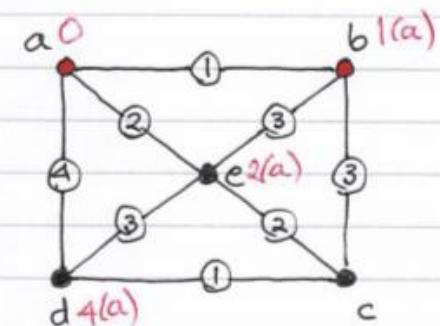
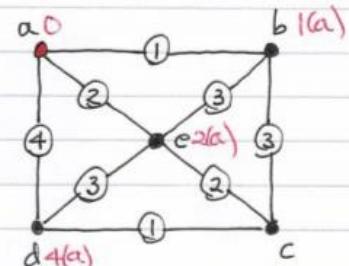
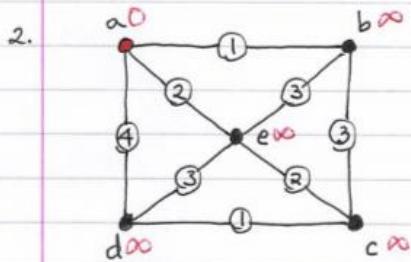


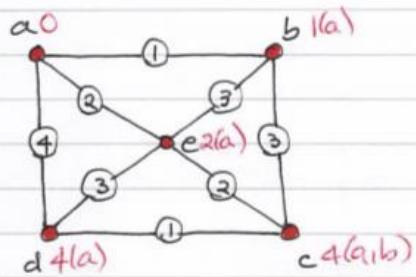
Note: Vertices in red have been added to set of vertices whose shortest path from the starting vertex has been calculated.



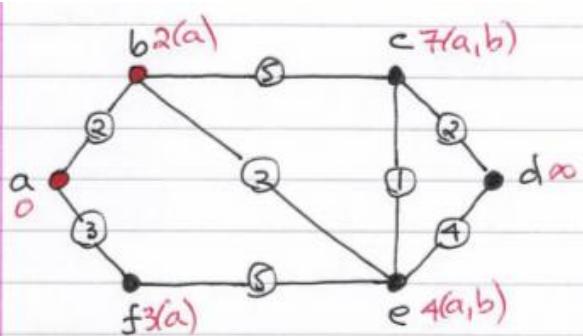
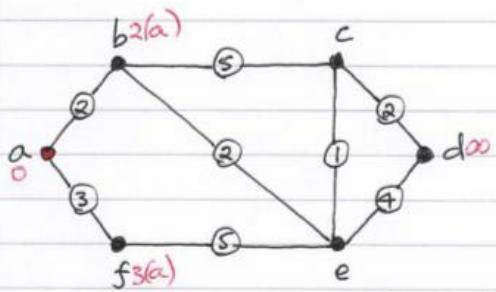
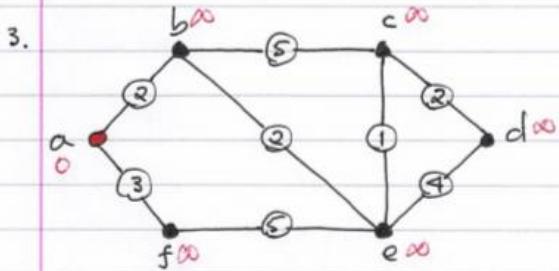


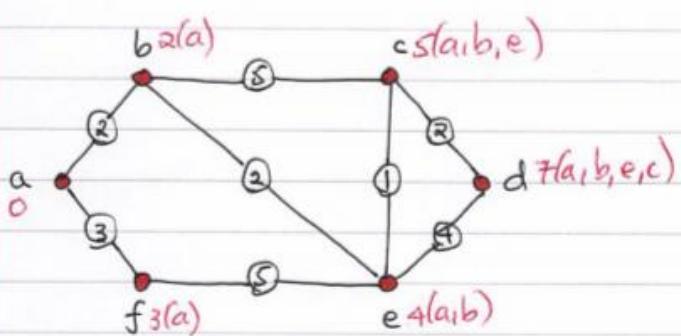
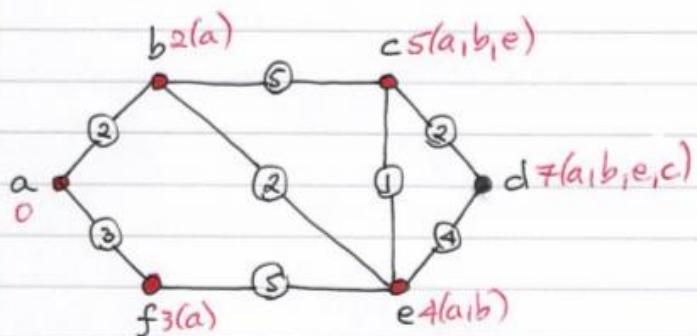
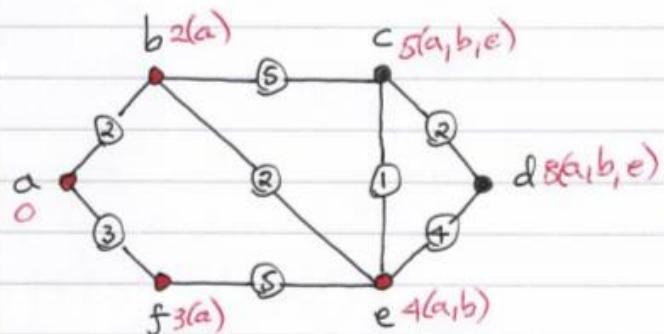
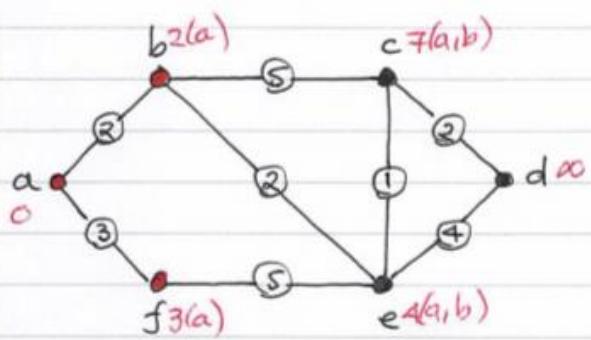
shortest route = a, d, e, c.



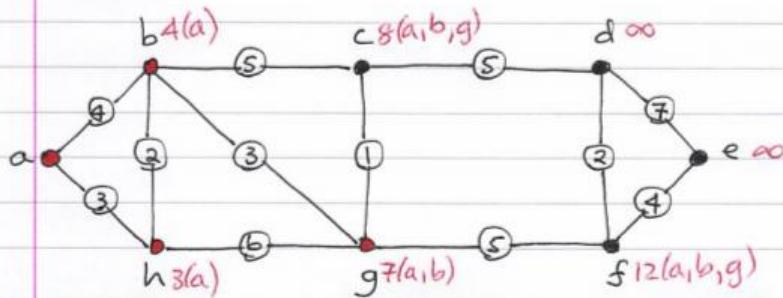
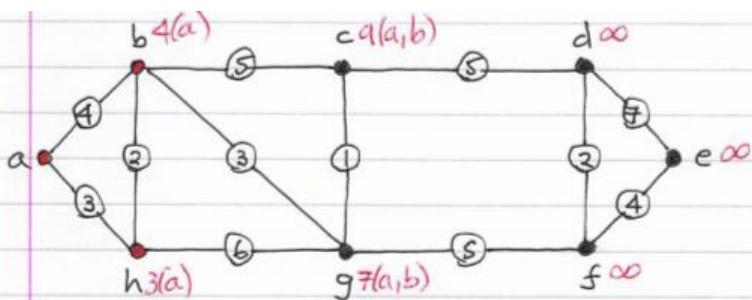
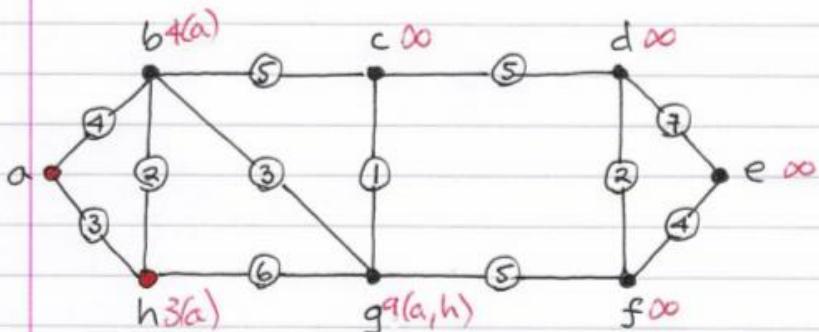
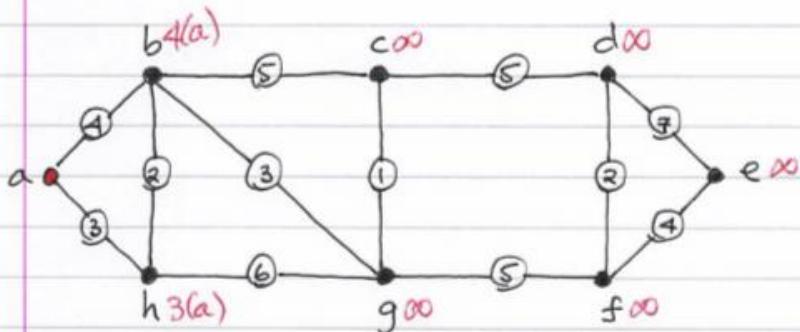
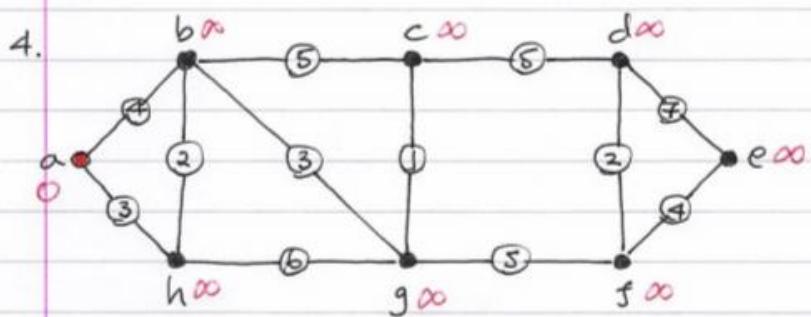


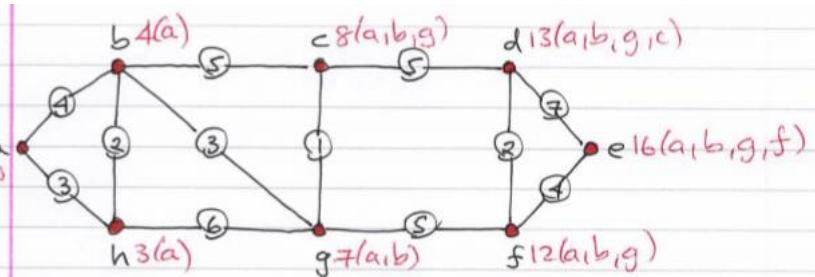
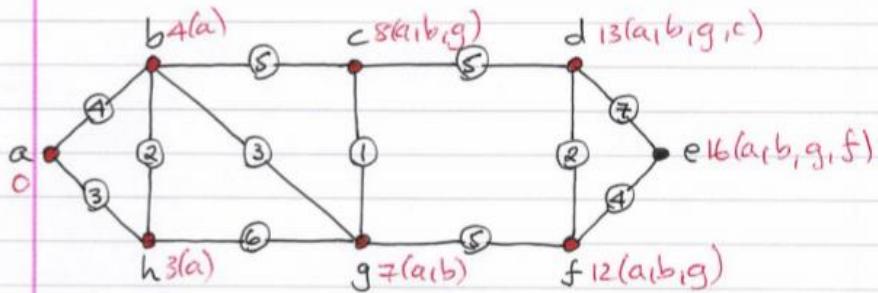
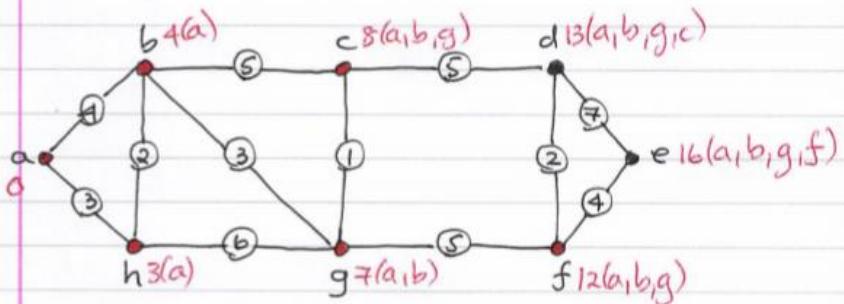
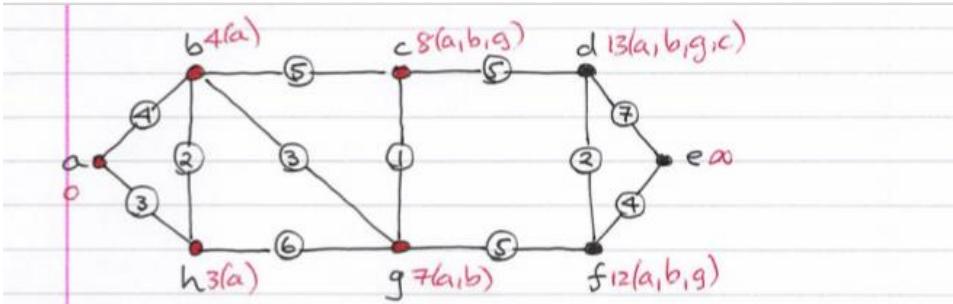
Shortest route = a,b,c
(also a,e,c)





shortest route = a, b, e, c, d





Shortest route = a, b, g, f, e