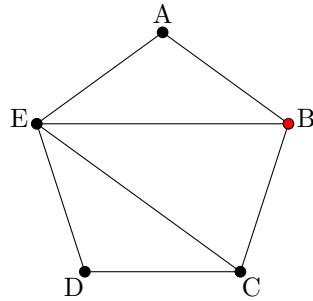


7.8

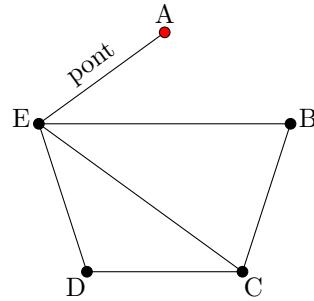
On constate que le graphe est semi-eulérien, car tous les sommets, hormis B et C, sont de degré pair.

Appliquons l'algorithme de Fleury pour déterminer un chemin semi-eulérien.

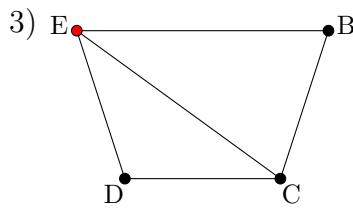
1)



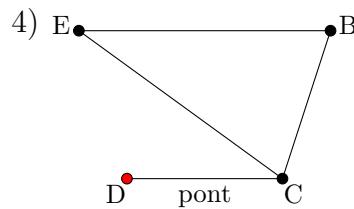
2)



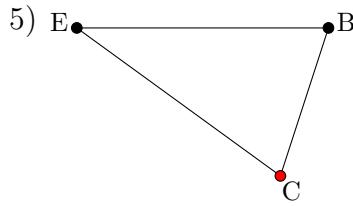
3)



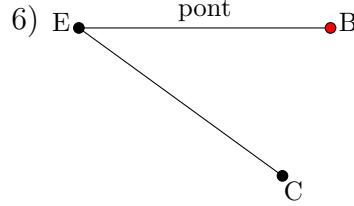
4)



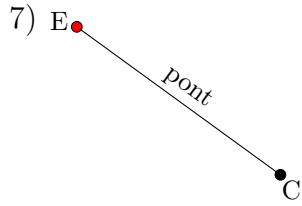
5)



6)



7)



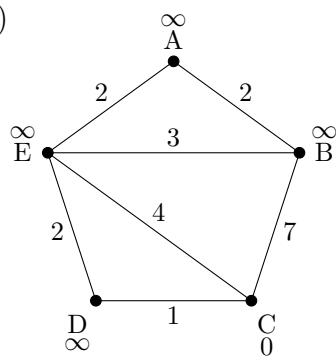
8)



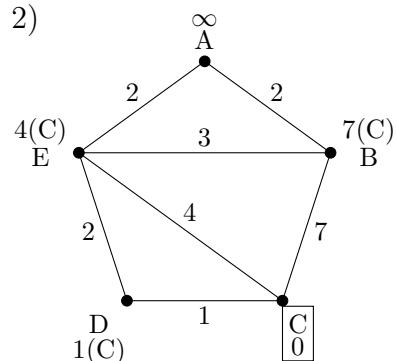
On a ainsi trouvé un chemin semi-eulérien : BAEDCBEC, dont le poids vaut $2 + 2 + 2 + 1 + 7 + 3 + 4 = 21$.

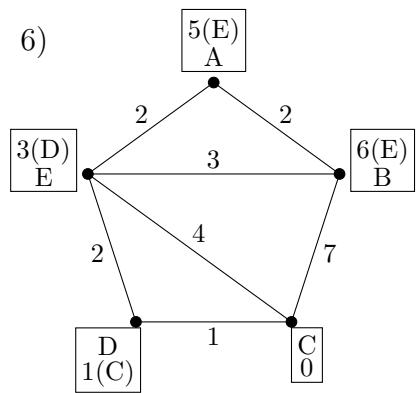
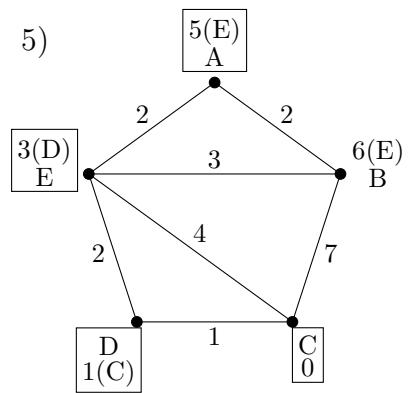
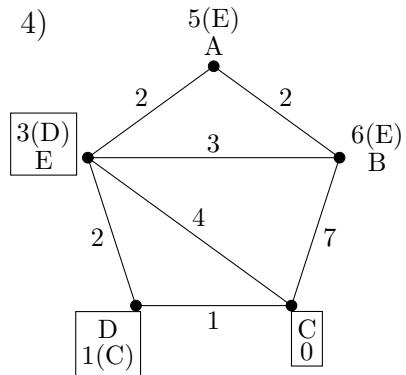
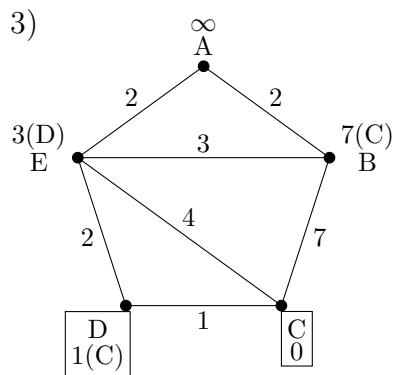
Il reste à utiliser l'algorithme de Dijkstra pour trouver le chemin le plus court menant de C à B.

1)



2)





Le chemin le plus court menant de C à B est donc : CDEB, de poids 6.

En définitive, le postier devra parcourir le chemin BAEDCBECDEB de poids $21 + 6 = 27$.