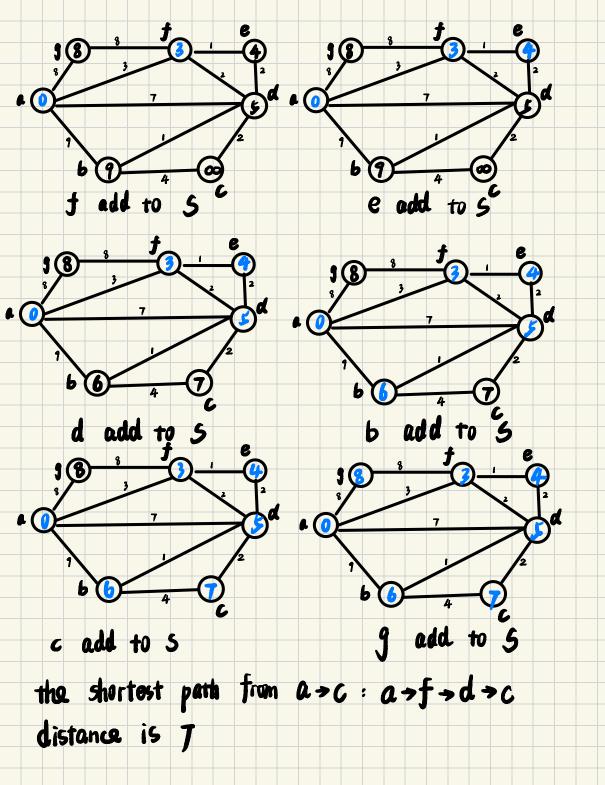
Exercise sheet 15 Question 15.1 Kruskal's algorithm: Prim's algorithm: from a: a-c -> c-b a-c 1 + b-c 1 + b-e 1 +b-e +e-f + f-g  $\rightarrow e-f \lor \rightarrow h-g \lor \rightarrow d-f \lor$ + b-fx → f-h V  $\Rightarrow$  f-h  $\Rightarrow$  h-g Weight = 1+1+1+1+2+3+1=10 weight - 1+1+1+1+2+3+1=10 Question 15.2



Question 15.3 we calculate the shortest path from and for the algorithm mentioned:
we need to plus & for all edges : olympic :  $\begin{array}{c|c}
a & 4 & 5 \\
3 & 5 & 5 \\
c & 6 & 6
\end{array}$ then the shartest path after plusing 5 is and the distance is: 3 however. from the original graph, we can go in a>b>c , whose distance is 1.