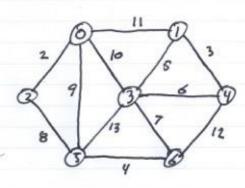
6-3

(6)



- Execute Prim - Jaraik algorithm

-he create the shutest pata tree set

· this will keep track of the vertices lacked in the shortest put trace

- LC start at vertec 0 and we traverse through every the minimum edge from visited nodes.

- then 
$$0 \rightarrow 2$$
, because orderina odec = 2 (wisht = 2)  
· then  $2 \rightarrow 3$ , because orderina codec = 8 (height = 8)  
· then  $5 \rightarrow 6$ , because orderina codec = 4 (height = 4)  
· then  $6 \rightarrow 3$ , because orderina codec = 7 (hoight = 7)  
· then  $3 \rightarrow 1$ , because orderina codec = 5 (height = 5)  
· then  $1 \rightarrow 4$ , because orderina codec = 3 (hoight = 3)

- so , the Mahmen spanding tree world = 29

