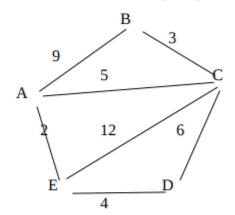
6. Consider the following weighted graph Gw.



- a) List the nodes of G<sub>w</sub> starting with A in the order in which they are settled in Dijkstra's algorithm. Show your work by giving, for each iteration, the settled node for the iteration and the distance to each unsettled node at the end of the iteration.
- b) List the nodes of  $G_w$  starting with C in the order in which they are settled in Dijkstra's algorithm.

Marked	А	В	С	D	Е
	0	-	-	-	-
Α	0	9	5	-	2
E	0	9	5	6	2
С	0	8	5	6	2
D	0	8	5	6	2
В					

A, E, C, D, B

Marked	А	В	С	D	Е
	-	-	0	-	-
С	5	3	0	6	12
В	5	3	0	6	12
Α	5	3	0	6	7
D	5	3	0	6	7
E					

C, B, A, D, E