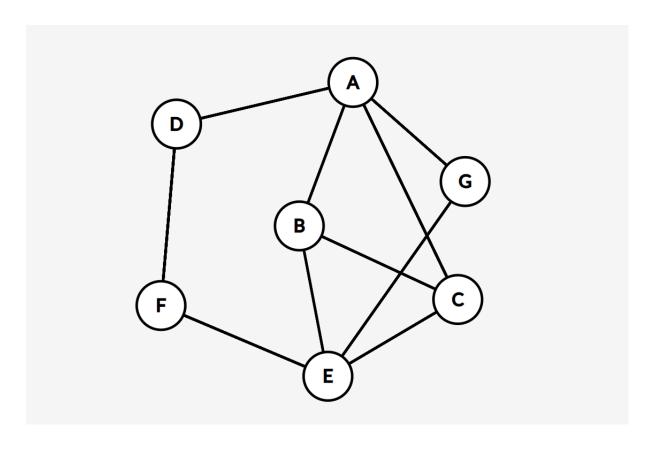
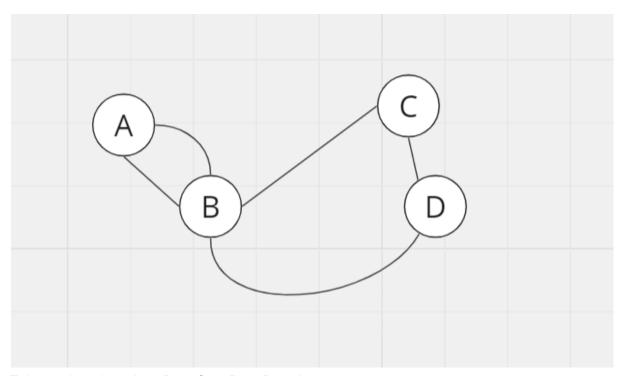
1. Output of breadth-first traversal from vertex b: $b \rightarrow a \rightarrow c \rightarrow d \rightarrow f \rightarrow e$

2.

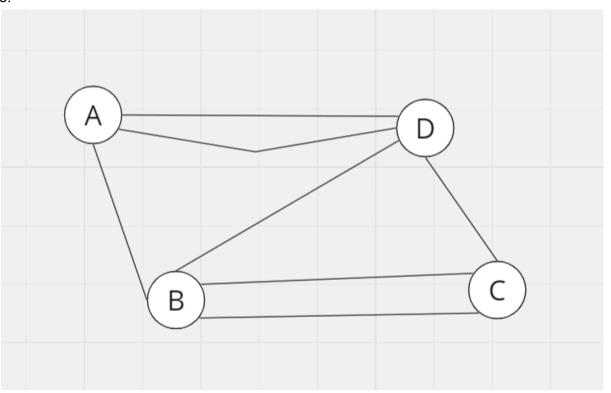


Breadth-first traversal from vertex A: A \rightarrow B \rightarrow C \rightarrow D \rightarrow G \rightarrow E \rightarrow F

- 3. the output of depth-first traversal from vertex A: A \rightarrow B \rightarrow C \rightarrow D \rightarrow F \rightarrow G \rightarrow E
- 4. the correct order of vertices selected into the set S until the vertex 5 is selected: 1 \rightarrow 2 \rightarrow 4 \rightarrow 3 \rightarrow 5
- 5. the label of the vertex 4 when the shortest path from 1 to 5 is determined: 6
- 6. order of vertices selected into the set S until the vertex F is selected: A \rightarrow C \rightarrow E \rightarrow F
- 7.



Euler cycle exists: $A \rightarrow B \rightarrow C \rightarrow D \rightarrow B \rightarrow A$ 8.



The multigraph has an Euler path: A \rightarrow D \rightarrow C \rightarrow B \rightarrow D \rightarrow B \rightarrow D \rightarrow A \rightarrow

- 9. Multigraph has a Hamilton circle: $a \rightarrow b \rightarrow c \rightarrow d \rightarrow e$
- 10. total edge-weight of the minimum spanning tree of G:

11. total edge-weight of the minimum spanning tree of G: