Analysis of Algorithms

Homework 4

Abraham Murciano

December 20, 2020

1 Dijkstra's Algorithm with negative weights

Part A

Figure 1 shows a graph with negative weights such that if we apply Dijkstra's algorithm to find the shortest path between vertices S and D, it will return the wrong path.
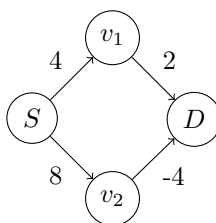

Figure 1: Graph for which Dijkstra doesn't work