



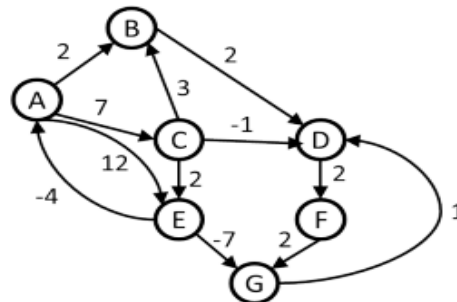
Exercise: 09

Greedy and Dynamic Programming

16 – Nov – 2023

Spot (5 Marks)

2. Consider the following directed, weighted graph:



- (a) Even though the graph has negative weight edges, step through Dijkstra's algorithm to calculate *supposedly* shortest paths from A to every other vertex. Show your steps in the table below. Cross out old values and write in new ones, from left to right within each cell, as the algorithm proceeds. Also list the vertices in the order which you marked them known.