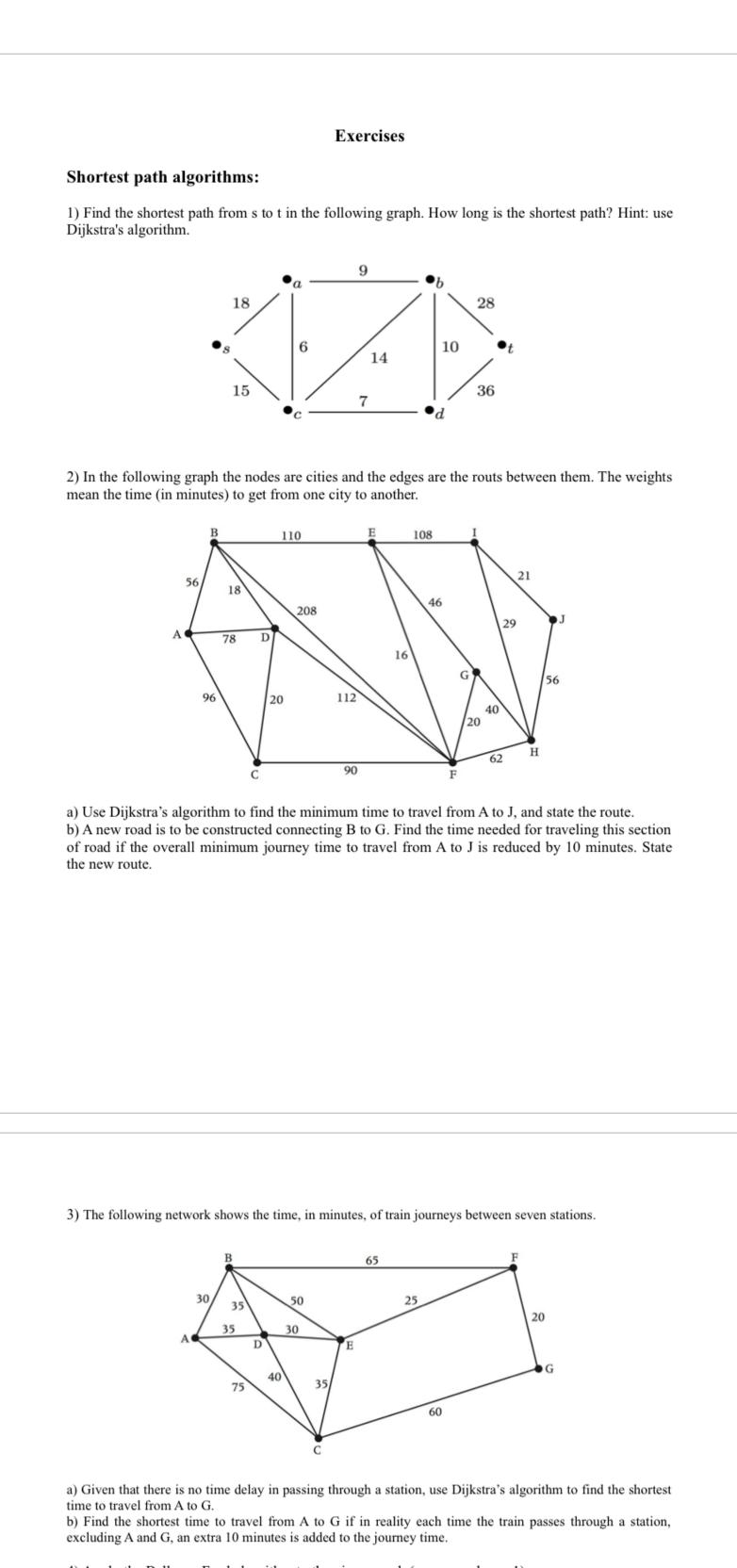
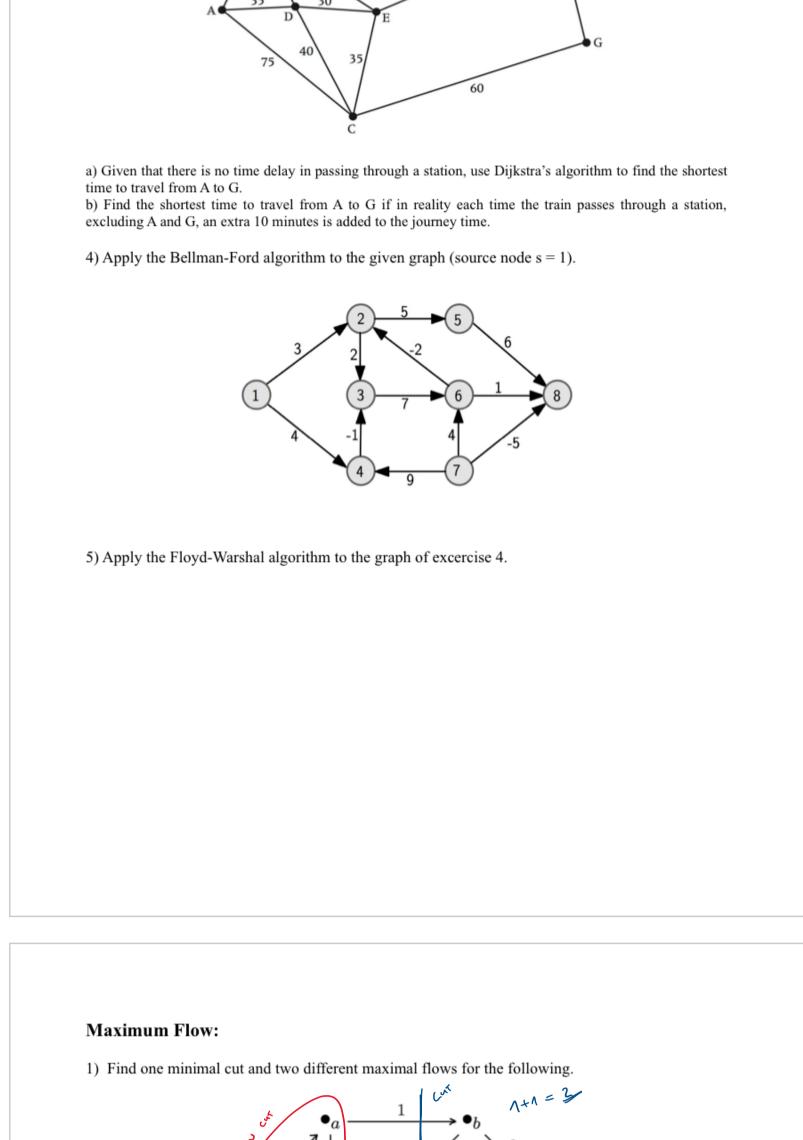
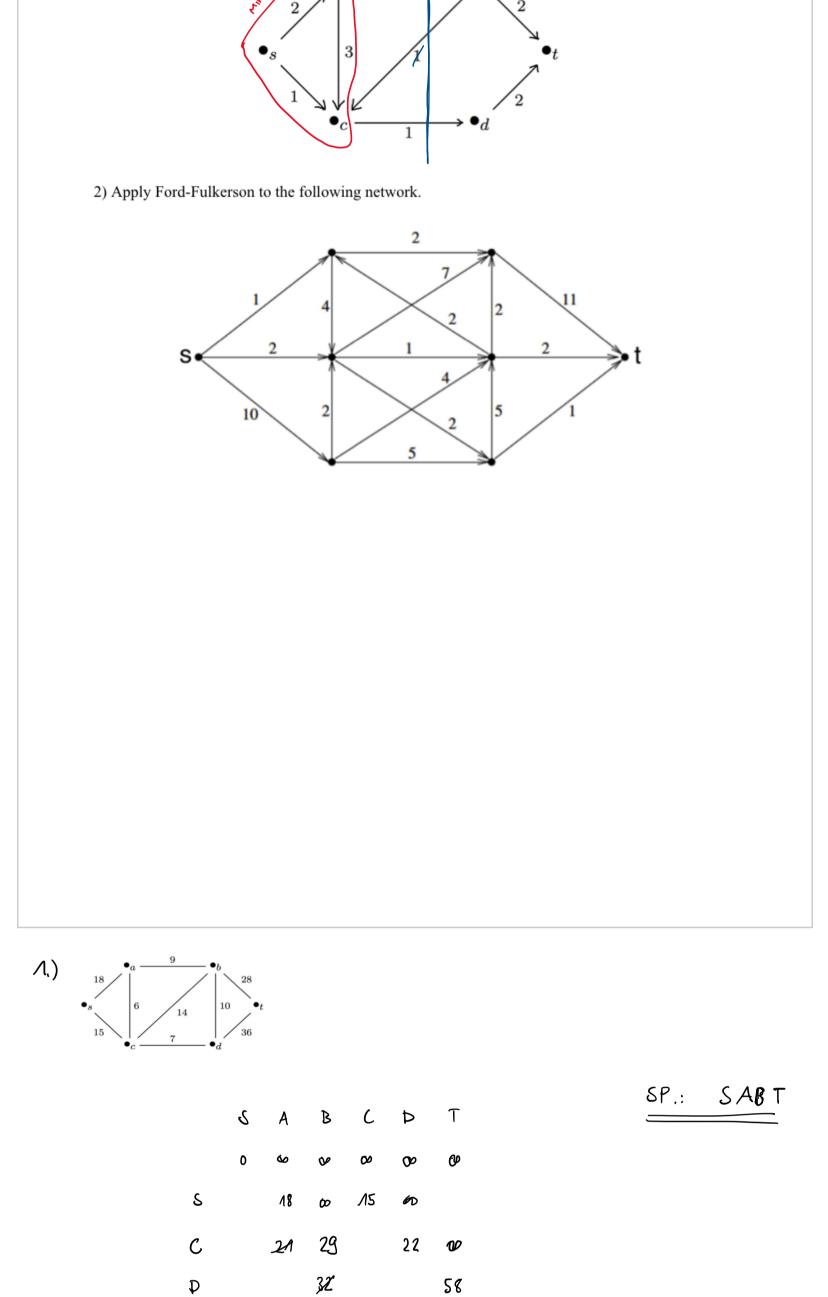
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3) The following network shows the time, in minutes, of train journeys between seven stations.

a) Given that there is no time delay in passing through a station, use Dijkstra's algorithm to find the shortest time to travel from A to G.
b) Find the shortest time to travel from A to G if in reality each time the train passes through a station, excluding A and G, an extra 10 minutes is added to the journey time.

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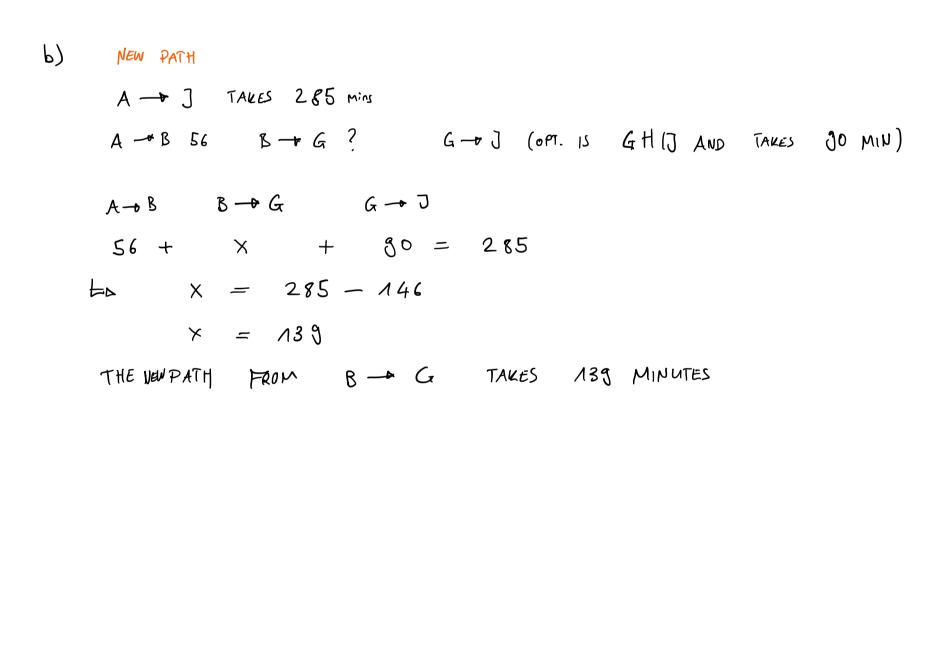
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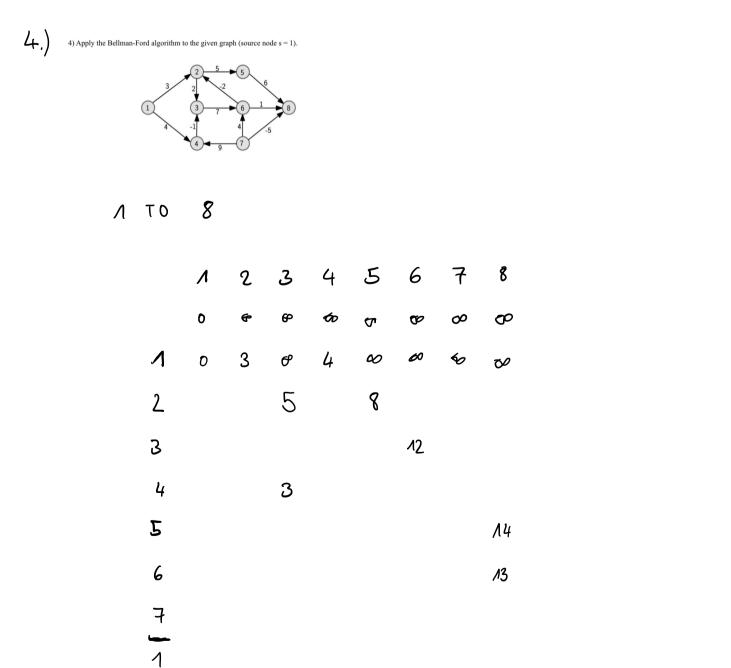
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