1. Use Frank Wolfe algorithm to solve the UE problem for the network below.

A picture containing text, different

Description automatically generated

Link performance function is . There are 8,000 vehicles from node 1 to node 3, and 6,000 vehicles from node 2 to node 4.

Note: if you’re solving the problem manually, please show at least 3 iterations. If you submit the source code, I will give out one bonus point.