(1) Solution: Gurobi found $x_1 = 0, x_2 = 4.1, x_3 = 3.7, x_4 = 9.1, x_5 = 9.3, x_6 = 11.3$ as an optimal solution. The code and solution is in a separate file.

(2) Solution: Gurobi found $y_{12} = y_{24} = y_{25} = y_{46} = 0, y_{13} = y_{35} = y_{56} = 1$ as an optimal solution. This gives the path $1 \rightarrow 3 \rightarrow 5 \rightarrow 6$ as a maximum path in the graph, whose edge weights sum to $3.7 + 5.6 + 2.2 = 11.5$. 