Problem 1  [DPV] Problem 8.3 (Stingy SAT)

Solution:

a) Prove Stingy SAT is in NP:

b) State your reduction and then do it (e.g., TSP → Colorings)

c) Prove your reduction is correct (e.g., TSP on $D$ has a solution $\iff$ Colorings on $G$ has a solution.
Problem 2  [DPV] Problem 8.14 (Clique+IS)

Solution: (Follow the format from the previous problem)