1. Consider the following linear programming problem:

 Maximize 2X + Y

 Subject to: X + 2Y ≤ 100

 X ≥20

 Y ≥30

You are solving this problem graphically using the corner point method.

a. List all the corner points of the feasible region. Briefly describe how you get them.

b. What is the optimal solution? Briefly describe how you get it.