

§3.3 (PART 2): UNBOUNDED AND INFEASIBLE SOLUTIONS

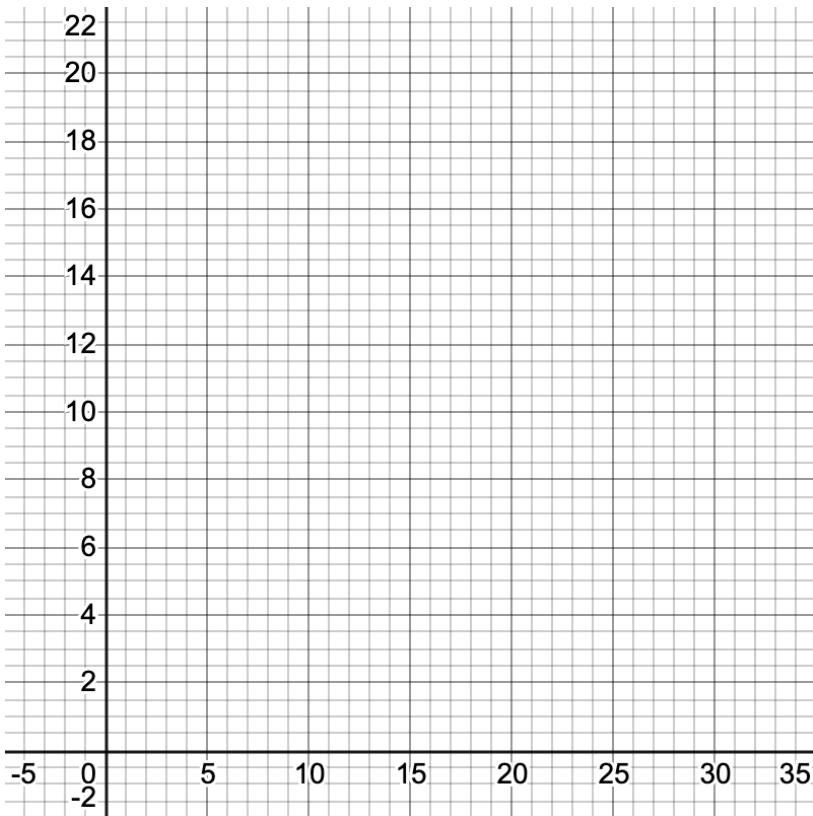
- 1.] Determine the optimal solution, if possible, to the LP below by sketching the feasible space on the graph provided.

$$\text{Maximize: } z = 2x + y$$

$$\text{Subject to: } x - y \leq 10$$

$$2x \leq 40$$

$$x, y \geq 0$$



- 2.] Determine the optimal solution, if possible, to the LP below by sketching the feasible space on the graph provided.

$$\text{Maximize: } z = 3x + 2y$$

$$\text{Subject to: } 2x + y \leq 2$$

$$3x + 4y \geq 12$$

$$x, y \geq 0$$

