

§3.3 (PART 1): DEGENERATE AND ALTERNATIVE OPTIMA

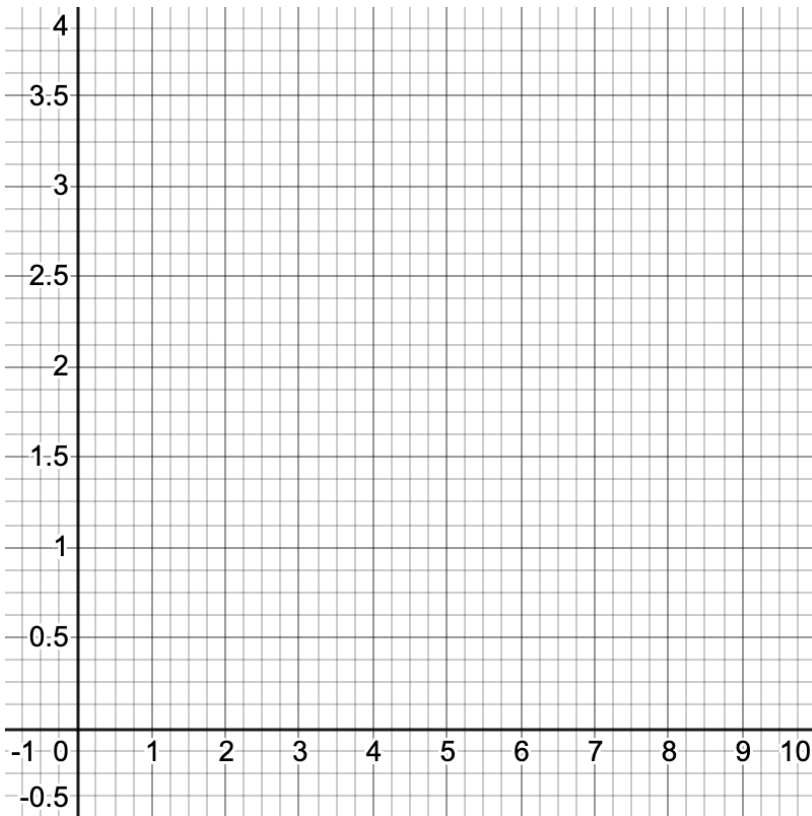
- 1.] Determine the optimal solution, if possible, to the LP below by sketching the feasible space on the graph provided.

$$\text{Maximize: } z = 3x + 9y$$

$$\text{Subject to: } x + 4y \leq 8$$

$$x + 2y \leq 4$$

$$x, y \geq 0$$



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

$$\text{Maximize: } z = 2x + 4y$$

$$\text{Subject to: } x + 2y \leq 5$$

$$x + y \leq 4$$

$$x, y \geq 0$$

