

3. Input: Matrix  $A$  of order  $m \times n$ , vector  $c$  of length  $n$ , vector  $b$  of length  $m$ .  
Assume that rank of  $A$  is  $n$ .

Implement as per the discussion we had in class to handle degeneracy and initial feasible point

$$-x \leq -1$$

$$-y \leq -1$$

$$-x - y \leq -4$$

$$Y \leq 3$$

$$\text{Max } -2x - 3y$$