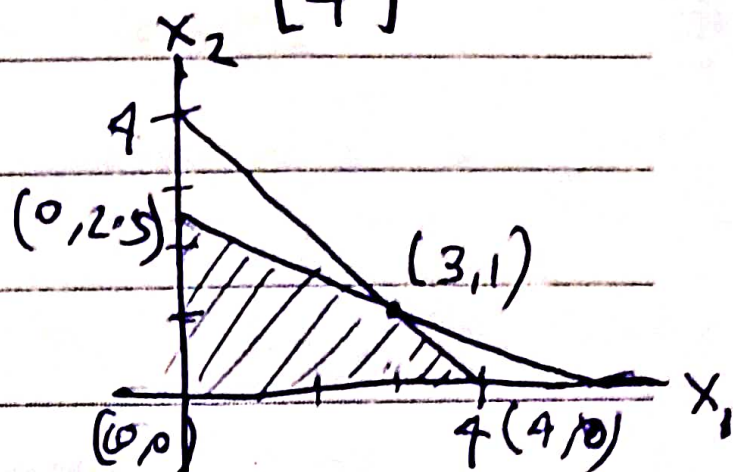


$$a) A = \begin{bmatrix} 1 & 2 \\ 1 & 1 \end{bmatrix} \quad b = \begin{bmatrix} 5 \\ 4 \end{bmatrix}$$

$$Z = 2x_1 + 4x_2$$

$$s.o., C = \begin{bmatrix} 2 \\ 4 \end{bmatrix}$$

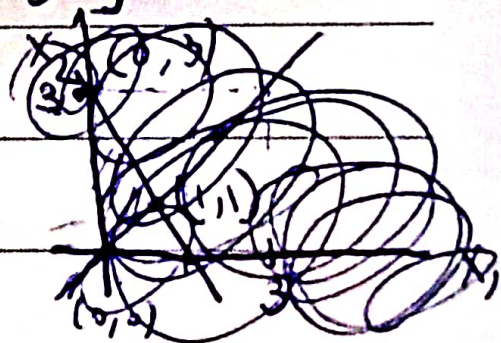


By trial n error :  $Z = 10$  is opt val.  
at  $(0, 2.5)$  or  $(3, 1)$

$$b) A = \begin{bmatrix} -2 & -1 \\ 1 & -1 \end{bmatrix} \quad b = \begin{bmatrix} -3 \\ 0 \end{bmatrix}$$

$$Z = 6x_1 + x_2$$

$$C = \begin{bmatrix} 6 \\ 1 \end{bmatrix}$$



~~By trial n error :  $Z = 15$  is opt val~~

~~at  $(1, 1)$~~

No sol<sup>n</sup> possible as

feasible sol<sup>n</sup> region is

unbounded

