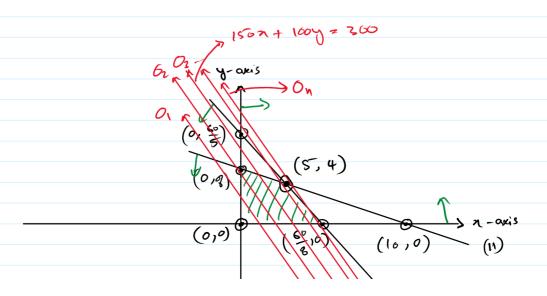
$$Obj \quad \int_{h} C^{T}X = (C_{1}, C_{2} - \dots, C_{n}) \begin{pmatrix} \chi_{1} \\ \chi_{2} \\ \vdots \\ \chi_{h} \end{pmatrix} = \sum_{\substack{i=1 \ i \neq 1}}^{n} C_{i}^{n} \chi_{i}^{n}$$

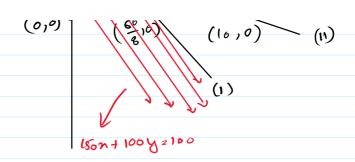
S.
$$A \times (\leq, \geq, \geq) b$$
 $A \in M_{mxm}$

$$\times_{j} \geq 0 \quad \forall \quad j \quad \{j_{21}, 2, \dots, 2, \dots, 2\}$$

Max
$$z = 150n + 106y - (1)$$

Sof $9x + 5y \le 60 - (11)$
 $4x + 6y \le 40 - (11)$
 $x,y \ge 0$

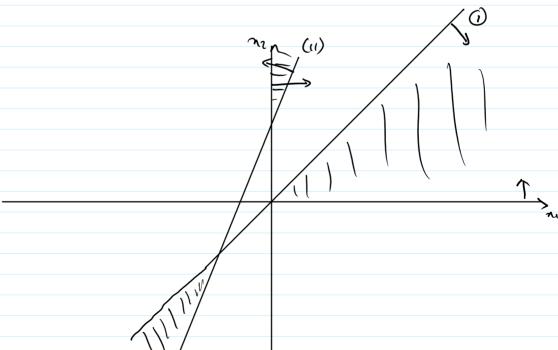




of as i is increasin in the beauth region the value of O; also increases.

Qz

$$X_1, X_2 \ge 0$$
 $X_1 \ge X_2$

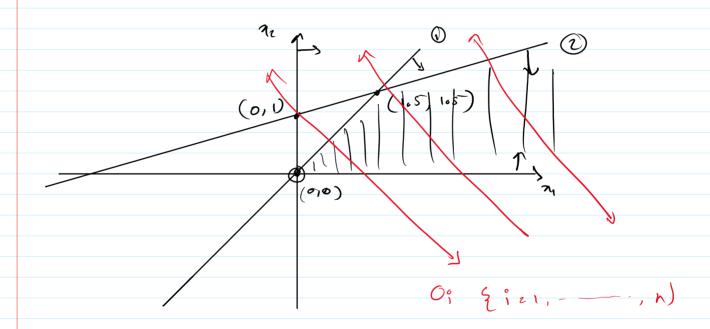


Q3 Max
$$z = 3 x_1 + 4 x_2$$

sof $x_1 - x_2 \ge 0$ — ①
 $-x_1 + 3 x_2 \le 3$ — ②
 $x_1, x_2 \ge 0$

$$n_2 \ge n_1 \qquad -0$$

$$n_2 \le \frac{n_1}{3} + 1 \qquad -0$$



Max
$$z = 6\pi_1 + 4\pi_2$$

How $5\pi_1 + 5\pi_2 \le 35$
 $5\pi_1 + 7\pi_1 \le 35$
 $4\pi_1 + 3\pi_2 \ge 12$
 $5\pi_1 + \pi_2 > 3$
 $7\pi_1, \chi_2 \ge 6$

$$A = \begin{bmatrix} a_{11} & a_{12} & - & - & a_{1N} \\ a_{21} & a_{22} & - & - & a_{2N} \\ a_{N1} & - & - & - & a_{NN} \end{bmatrix}$$

$$R(A) = m$$

$$R(A) = m$$

$$R(A) = m$$

$$n = (n_1, n_2, n_3)$$
 $n = (3, 1, 0)$ y as $\kappa_1, \kappa_2, \kappa_3 \ge 0$

· All BFS of Ax 2b, n 20 are extreme pt. of convex set of fos

• If LPP admits an optimal sol" then the obj In attains the optimum value at an extreme pt. of the convex set generated by all f.S.