- 9 1) Use the revised Simplex method to solve the following LP problem.
 - i) Maximize Z = 221+22

S. t
$$3x_1 + 4x_2 \le 6$$

 $6x_1 + x_2 \le 3$ and $x_1, x_2 > 0$.

- ii) Maximize $\overline{\chi} = \chi_1 + \chi_2$ S.t $3\chi_1 + 2\chi_2 \leq 6$ $\chi_1 + 4\chi_2 \leq 4$ and $\chi_1, \chi_2 > 0$.
- Minimize $\vec{\chi} = 421 + 322$ S.t 21 + 222 > 8 321 + 222 > 12 and 21, 22 > 0.
 - iv) Maximize $\vec{x} = 22_1 32_2$ S.t $2_1 - 22 \le 2$ $52_1 + 422 \le 46$ $72_1 + 22_2 > 32$ and $2_1, 2_2 > 0$.