

## Sensitivity

Q1: ICI produce two products on two plants, a unit of product one requires 2 hours on plant A and 1 hour on plant B. for product two a unit requires 1 hour on plant A and 3 hours on plant B. the revenues per unit of product one and two are Rs.30 and Rs. 20 respectively. The total daily processing time available for each plant in 8 hours. If the capacity plant A is increase from 8 hors to 9 hours, Discuss the sensitivity (a) the rate of revenue (b) the range of capacity plant A.

$$\text{Rate of revenue} = \frac{Z_g - Z_c}{\text{capacity change}}$$

$Z_g$  = increasing values and  $Z_c$  = original values