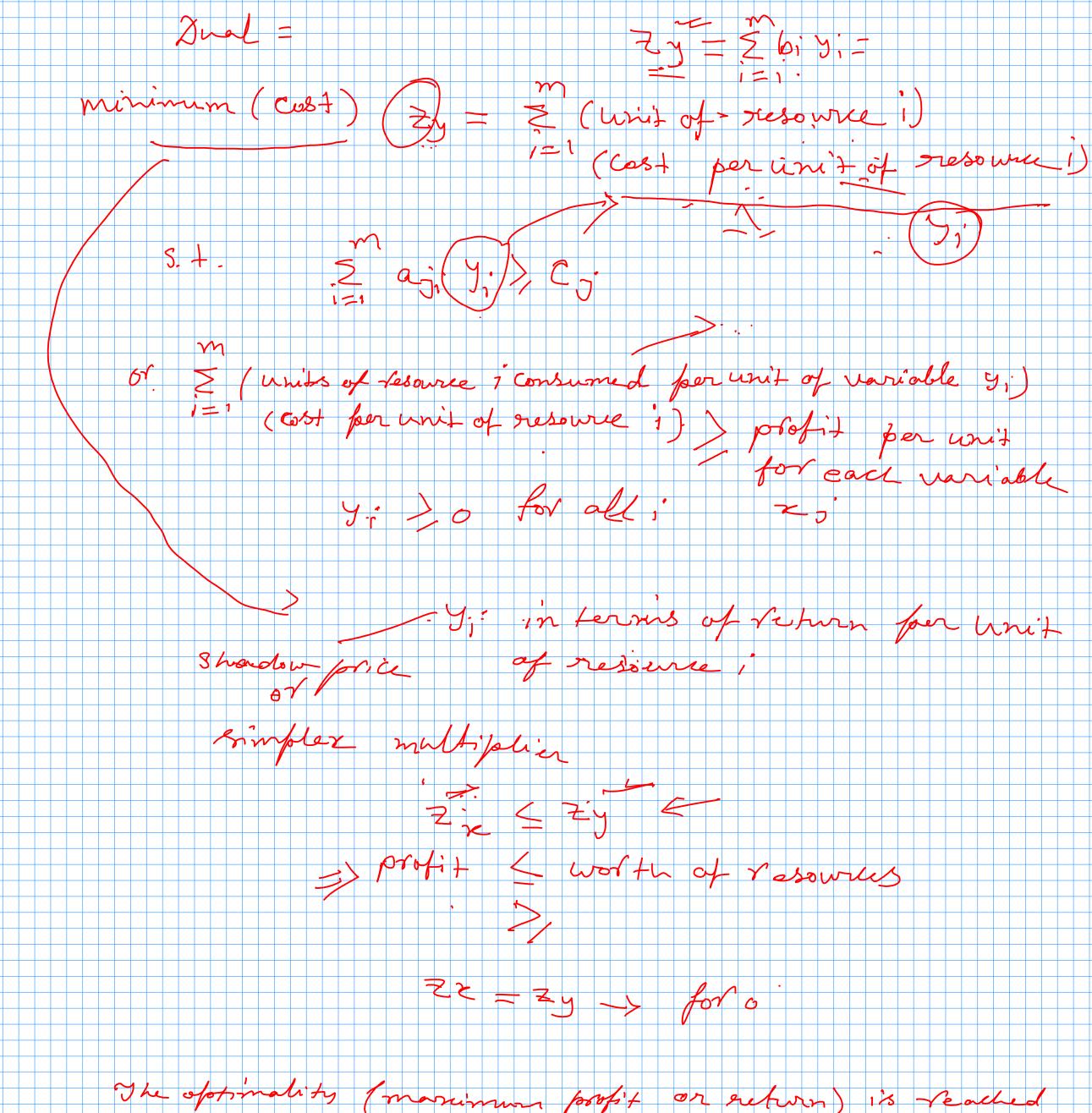
production manager: Optimize the available resources to Determine grantsties of each broducy Optimize the resource utilization so that marginal opportunity cest of each resource unit is equal to its marginal return Calso called Stadow Josieck change in optimal objective function value shadow pobice Unit change in availability of resource natione i consumed (reguréed)

Saij kj.

Jen unit of variable

maximum unit of S. t. Constaints. presource available or in (unit of besowree i consumed (original) per unet of variable zij (unit of variable zij unit of resource i nomailable



The oformality (marimum profit or return) is reached only when the resources are completely whilized.

profit per unit of octivity 23 Shadour prive of resources used per unit of activity of j. Some standard results on duality 1. Dual of the dual Lpp will be Jobi mal again 2. If either poimal I small has an unbounded object ve function volve, the see other foroblem has no feasible solution. 3. If either format of smal has finite of inal solution, He other one also pases the same,

 \sim \sim \sim Simplex method! - Subopsimal Solution tleving veriable priet Column 25-05 convert max 75-05

3 orse atless 25-0520 2B; <0 one variable es; 40 ai x ×3; <0/ Row Max aik tovide clement equ 07