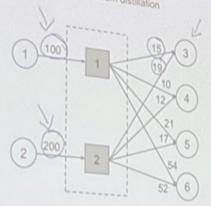


## Kapitel 1.2 Input-side determined production

- Distinct relationship between basic activities and input types (1:1) Only one input coefficient per activity unequal to zero
- Example: Petroleum distillation



## Algebraic model:

$$y_3 = 0.15 \cdot x_1 + 0.095 \cdot x_2$$

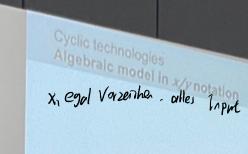
$$y_4 = 0.10 \cdot x_1 + 0.095 \cdot x_2$$

$$y_5 = 0.21 \cdot x_1 + 0.085 \cdot x_2$$

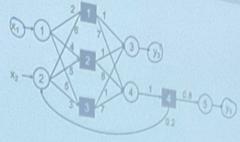
$$y_6 = 0.54 \cdot x_1 + 0.26 \cdot x_2$$







$$\begin{array}{lll} x_1 &=& 2 \cdot \lambda_1 + 4 \cdot \lambda_2 + 5 \cdot \lambda_3 \\ z_2 &=& -6 \cdot \lambda_1 - 5 \cdot \lambda_2 - 3 \cdot \lambda_3 + 0.2 \cdot \lambda_4 \\ y_3 &=& \lambda_1 + \lambda_2 + \lambda_3 \\ z_4 &=& 7 \cdot \lambda_1 + 8 \cdot \lambda_2 + 7 \cdot \lambda_3 - \lambda_4 \\ y_5 &=& 0.8 \cdot \lambda_4 \end{array}$$





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