TUTORIAL 09

Notiztitel 27.06.2014

Exan: 11th July 11:30-12-45

N9189 and N1095

- open book, pocket calculation

- Programmable calculator are NOT allowed

Outline:

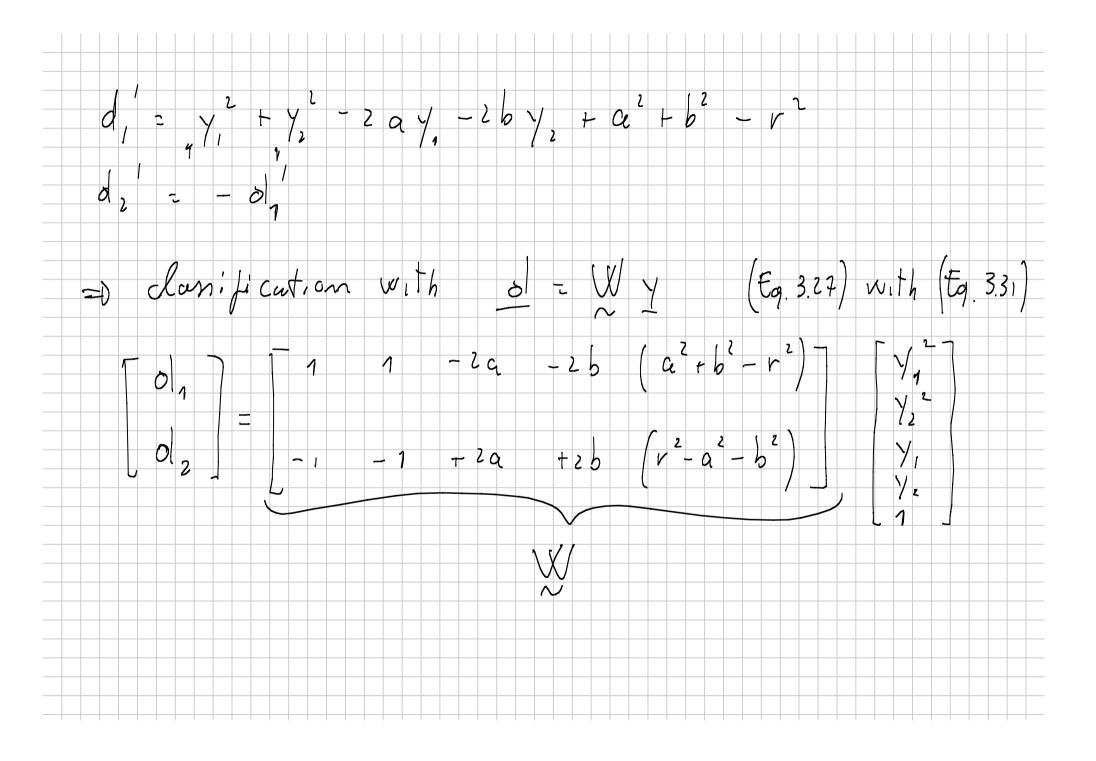
Pattern clamfication

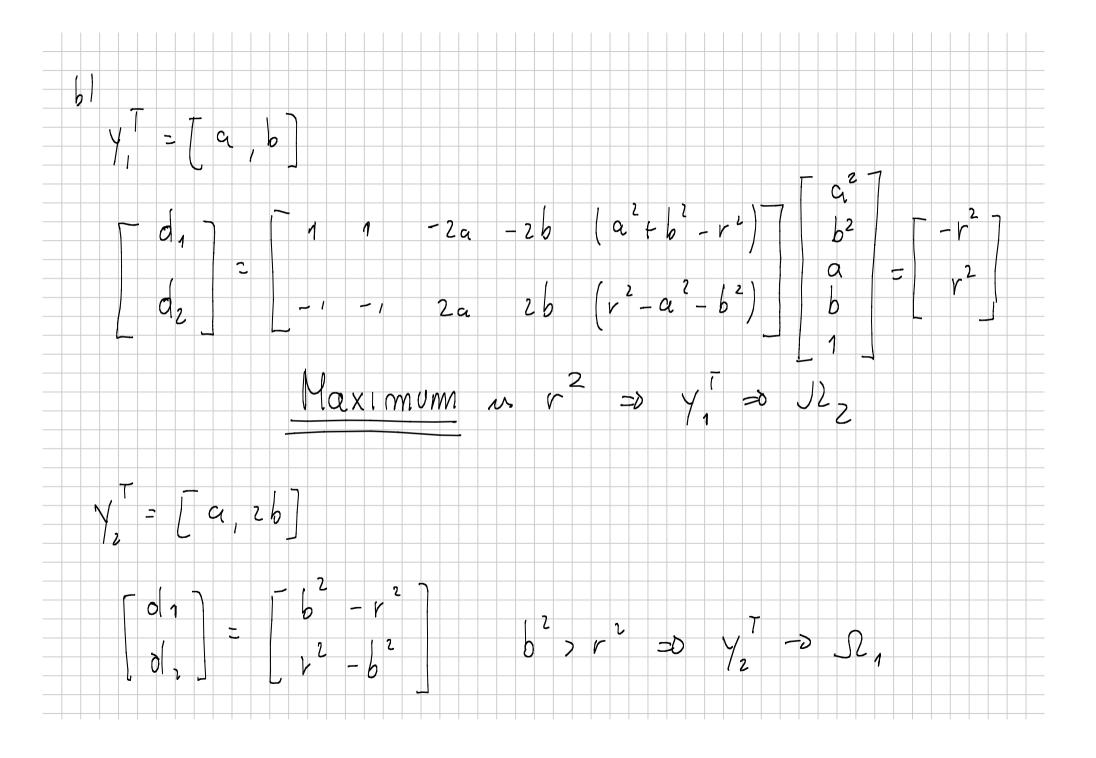
- Polynomial classifiers

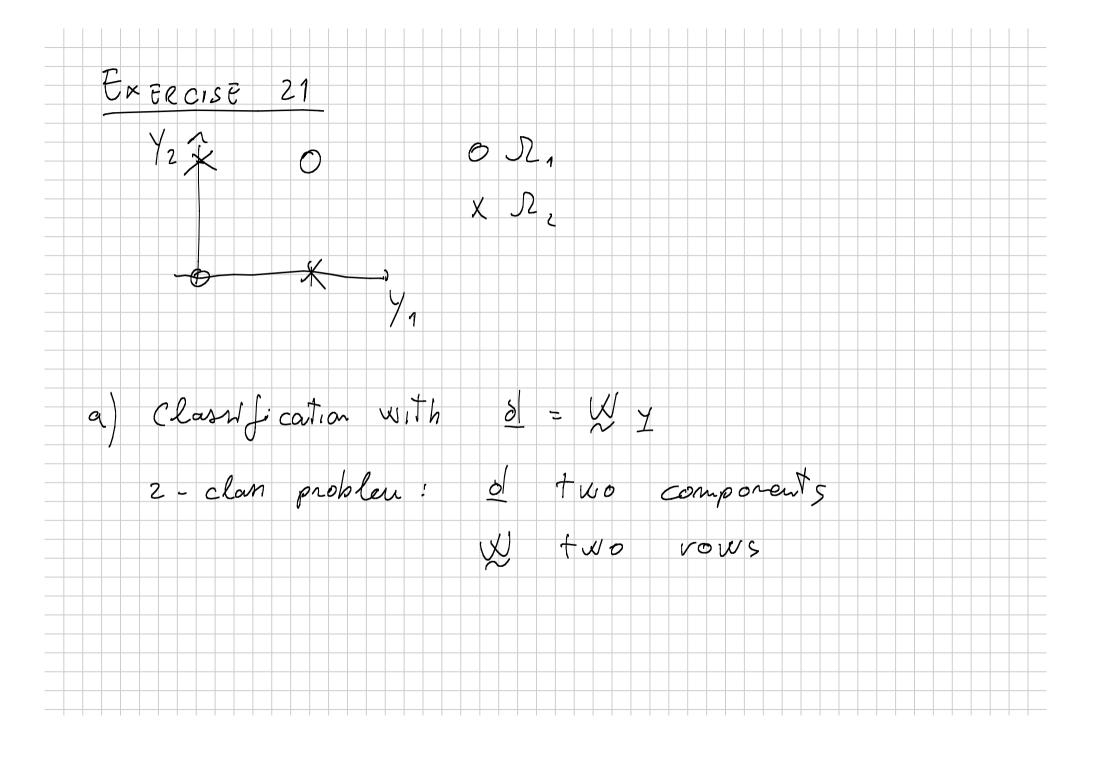
Exercise 20  $\Omega_1$ W b -0 **y**1 Jen ction 3.20 ohe a sion

paint is outside 0/2 the paint ØZ moddle N this he rewritten Two can as - 8 points outside 0 Paints ruside ල

circle equation a 2 2 2 - a class boundary 0 > - a L - O



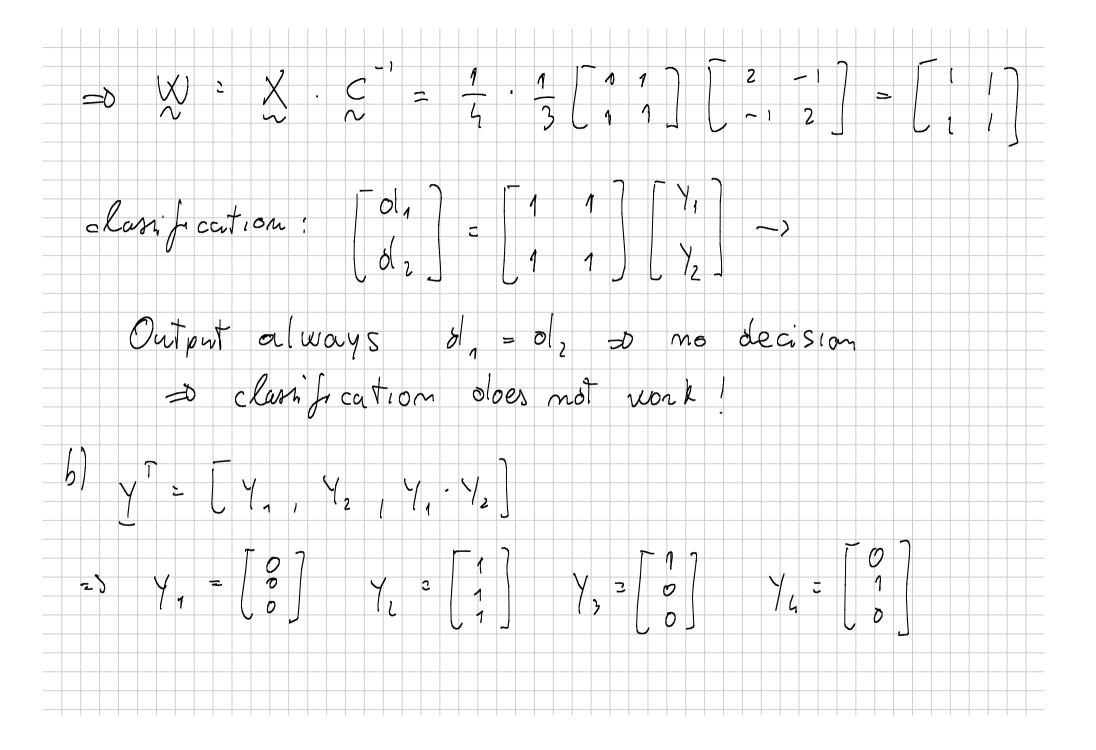


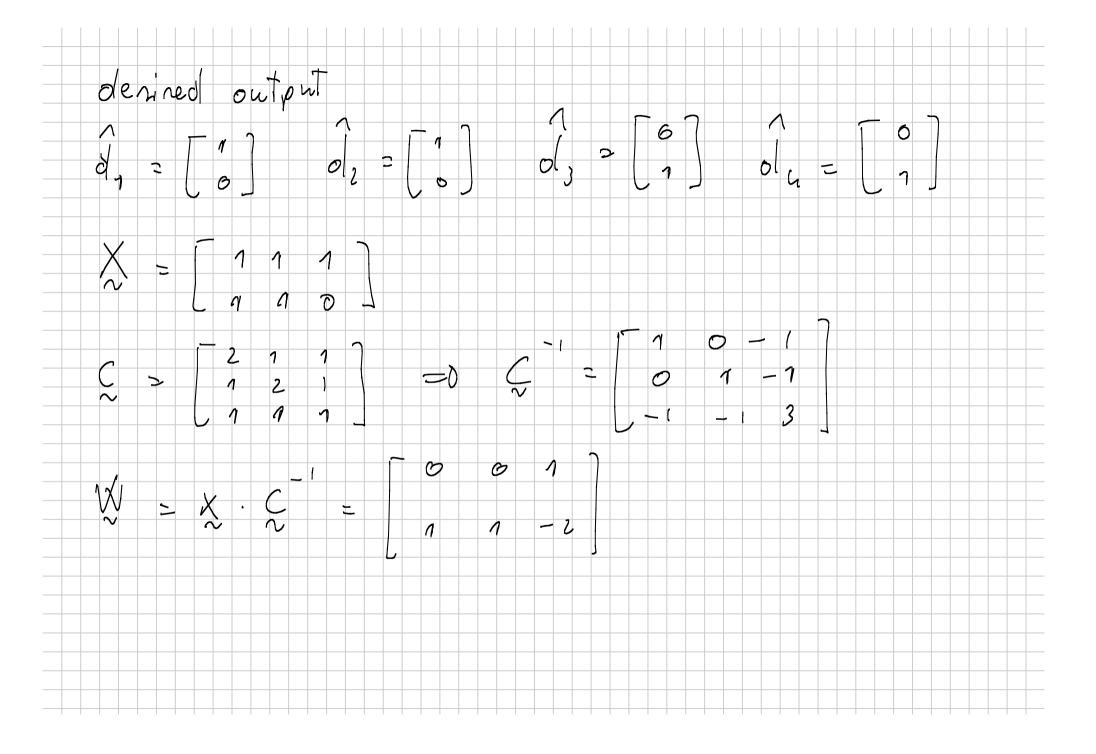


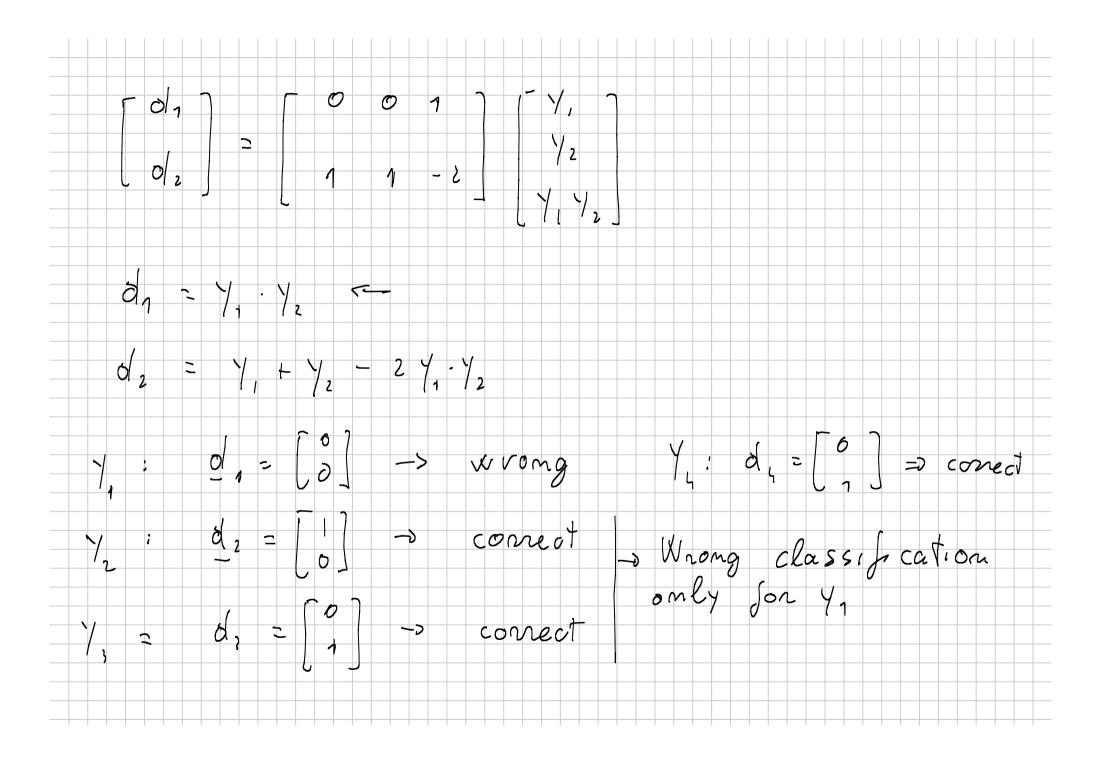
he calculated with can mpat covorvance mentrix linear classifier 6

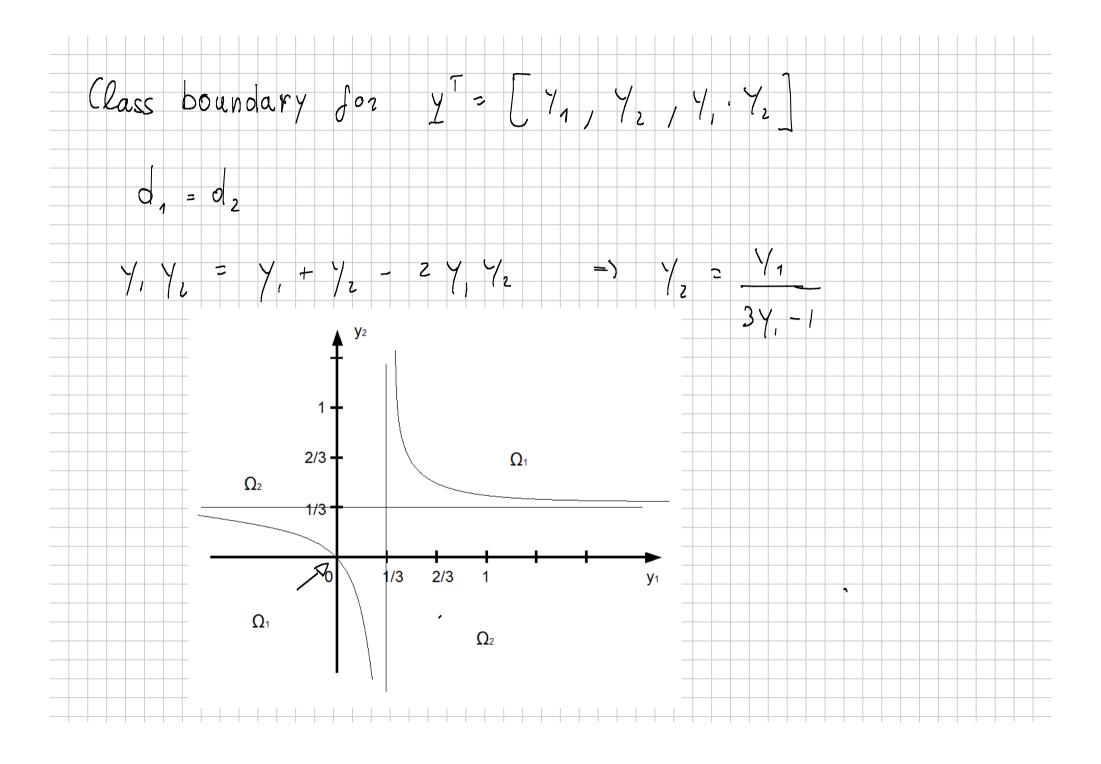
desired output:
$$\begin{cases}
\delta_{x} = \begin{bmatrix} 1 \\ 0 \end{bmatrix} & ol_{2} = \begin{bmatrix} 1 \\ 0 \end{bmatrix} & ol_{3} = \begin{bmatrix} 0 \\ 1 \end{bmatrix} & ol_{4} = \begin{bmatrix} 0 \\ 1 \end{bmatrix} \\
Calculation of X$$

$$\begin{cases}
\lambda = \begin{bmatrix} 1 \\ 0 \end{bmatrix} & ol_{2} = \begin{bmatrix} 1 \\ 0 \end{bmatrix} & ol_{3} = \begin{bmatrix} 0 \\ 1 \end{bmatrix} & ol_{4} = \begin{bmatrix} 0 \\ 1 \end{bmatrix} \\
\lambda = \begin{bmatrix} 1 \\ 0 \end{bmatrix} & ol_{4} = \begin{bmatrix} 0 \\ 1 \end{bmatrix} & ol_{4} = \begin{bmatrix} 0 \\ 1 \end{bmatrix} \\
\lambda = \begin{bmatrix} 1 \\ 0 \end{bmatrix} & ol_{4} = \begin{bmatrix} 0 \\ 1 \end{bmatrix} & ol$$









boundances clan for from W through organ **⇒** =0 + 0.5 applied to be as 01: = 4 + 12 - 2 4 1/2 + 0.5

