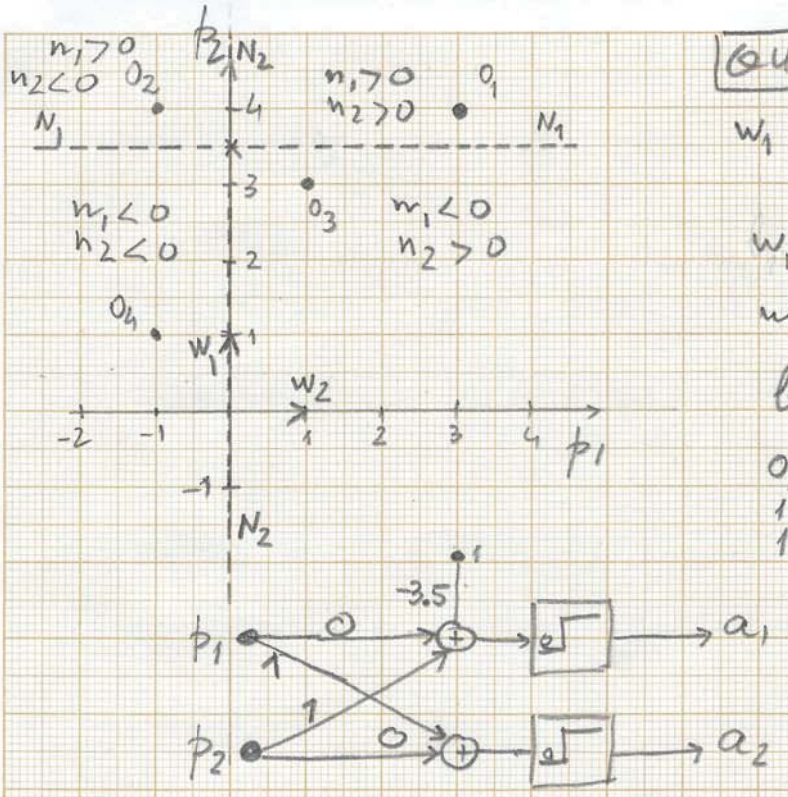
QUESTION 4



$w_1 = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$ $w_2 = \begin{bmatrix} 1 \\ 0 \end{bmatrix}$

$w_{11} p_1 + w_{12} p_2 + b_1 = 0$ $p = [0\ 3.5]^T$

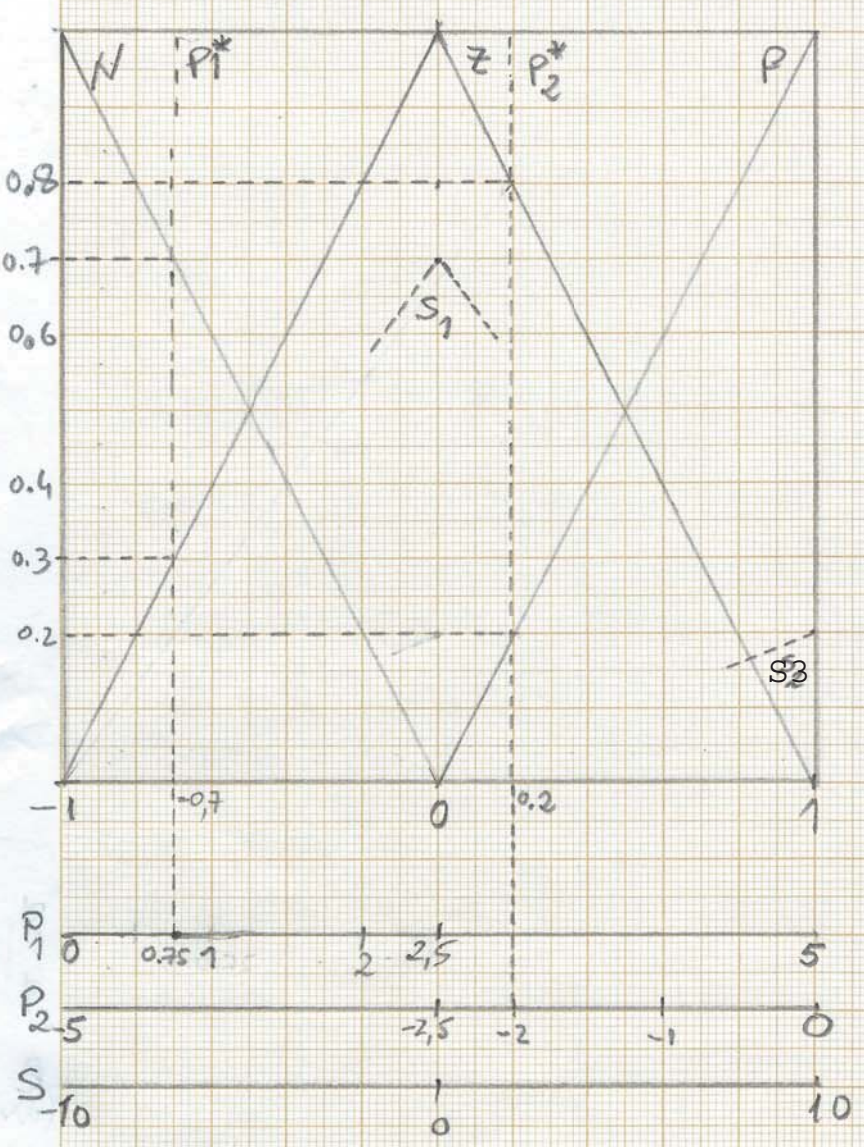
$w_{11} \cdot 0 + 1 \times 3.5 + b_1 = 0 \Rightarrow b_1 = -3.5$

$b_2 = 0$ (N_2 contains the origin

o_1	o_2	o_3	o_4
1	1	0	0
1	0	1	0

Remark: there are many solutions. this is one.

QUESTION 6



(graphical normalization)

Remarks:

1- use graphical normalization (easy and clear)

2- design such that you can read in the figure with precision.

3- one figure is enough if sufficiently big to be clear.

4- see the text of the solution

6/1/2017 AS

QUESTION 7