0.1 a)

Lia sun nacmable of 7

 $\begin{array}{c|cccc}
& & \times_{1} \leq 2 & & -\times_{1} + 0x_{2} + 2 \\
& & \times_{1} \neq -3 & & \times_{1} + 0x_{2} + 3 \\
& & \times_{2} \leq 4 & \Rightarrow 0 \times_{1} - \times_{2} + 4 \\
& & \times_{2} \neq 1 & 0 \times_{1} + \times_{2} - 1
\end{array}$

20 ⇒ 2 εισοδοι 2 κωπ ⇒ 1 εξοδος

sign = \ \ 1, x > 0

1 0 Sign()

X2 1 1-1

Sou()

ha -T kasnilobia kasnilobia T kom ha elogo T exache

2

B) Exorps perception for subside $a_1x + b_1y + b_1 = 0$ Déhoutes so perception Br va Extra cobra reco proposis $a_2x + b_2y + b_2 = 0$, $b_2 = 1$

Fig va Ervai n ibia Eustra Apraer :

 $e_{1}\left(x_{1}\neq0\right)$ evan $c_{12}=\frac{c_{12}}{x_{1}}$ up $c_{2}=\frac{c_{12}}{x_{1}}$

Enopreson perception proporties von enizoxontes

$$\begin{cases} F(x) = \frac{1}{2}(d-y)^2 = \frac{1}{2}e^2 \\ \Delta w = \pi \cdot \delta \cdot y \end{cases} \qquad \begin{cases} F(x) = \frac{1}{1+\exp(\pi u)} \\ F(x) = \frac{1}{2}(d-y)^2 \cdot \frac{2g(u)}{2g(u)} = \frac{2g(u)}{2g(u)} \cdot \varphi'(u(u)) = \frac{1}{2}(d-y)^2 \cdot \frac{2g(u)}{2g(u)} \cdot \varphi'(u(u)) = \frac{1}{2}(d-y)^2 \cdot \frac{2g(u)}{2g(u)} \cdot \varphi'(u(u)) = \frac{1}{2}(d-y)^2 \cdot \frac{2g(u)}{2g(u)} = \frac{1}{2}(\frac{1}{2} - \frac{1}{2} - \frac{1}{2}) \cdot \frac{2g(u)}{2g(u)} \cdot \frac{2g(u)}{2g(u)} = \frac{1}{2}(\frac{1}{2} - \frac{1}{2} - \frac{1}{2}) \cdot \frac{2g(u)}{2g(u)} \cdot \frac{2g(u)}{2g(u)} = \frac{1}{2}(\frac{1}{2} - \frac{1}{2}) \cdot \frac{2g(u)}{2$$

H spatificial da gienco Just our In repinemon

u) Dw = n.ay(d-y)

$$A_1 = \frac{0}{x_1} + \frac{0.2}{x_2} + \frac{1}{x_3} + \frac{0.2}{x_4}$$
 \Rightarrow $A_1 \text{ OR } A_3 =$

$$A_3 = \frac{0}{x_1} + \frac{0}{x_2} + \frac{6.3}{x_3} + \frac{1}{x_4}$$

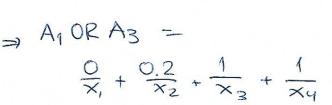
$$A_2 = \frac{0.7}{x_1} + \frac{0.9}{x_2} + \frac{0.2}{x_3} + \frac{0}{x_4}$$

$$B_1 = \frac{0.9}{y_1} + \frac{0.4}{y_2} + \frac{0.1}{y_3}$$

$$B_2 = \frac{0.3}{y_1} + \frac{0.8}{y_2} + \frac{1}{y_3}$$

$$A' = \frac{0.3}{x_1} + \frac{0.4}{x_2} + \frac{0.8}{x_3} + \frac{0.5}{x_4}$$

09



Av X Ervai Aj in X Ervan Az TOTE Y HICH B,

AV X EIVON AZ TOTE Y EIVON B

Dohnepacha

