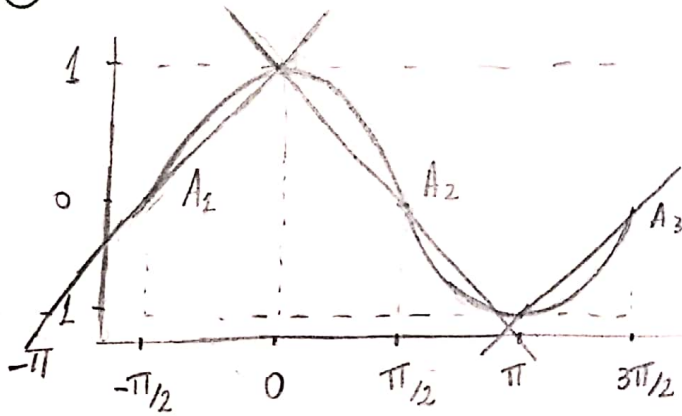


Sintomas Nebulosos TP2 - Parte 2

2



$$A_1 \rightarrow p_1 x + b_1$$

$$A_2 \rightarrow p_2 x + b_2$$

$$A_3 \rightarrow p_3 x + b_3$$

$$A_1 \rightarrow p_1 x + b_1$$

$$b_1 = 1$$

$$p_1 = 2/\pi$$

$$A_1 \rightarrow \frac{2}{\pi}x + 1 = y_1$$

$$A_2 \rightarrow p_2 x + b_2$$

$$b_2 = 1$$

$$p_2 = -2/\pi$$

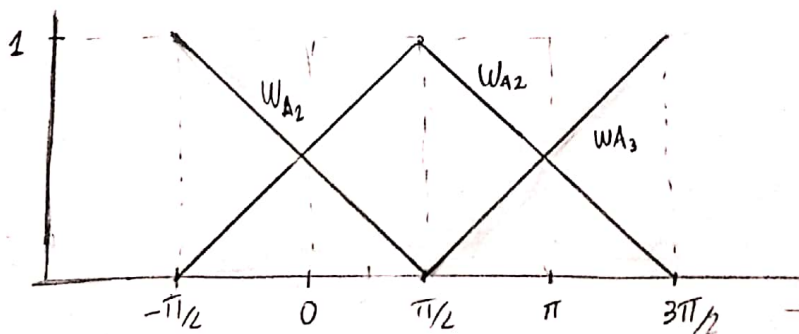
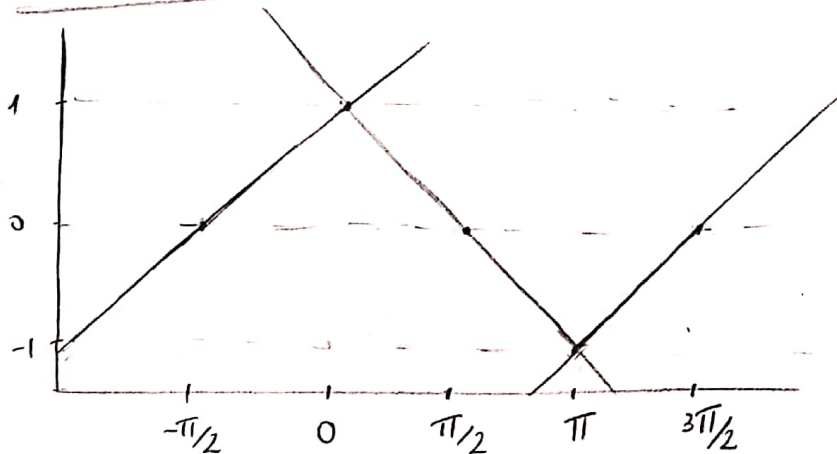
$$A_2 \rightarrow -\frac{2}{\pi}x + 1 = y_2$$

$$A_3 \rightarrow p_3 x + b_3$$

$$b_3 = -3$$

$$p_3 = 2/\pi$$

$$A_3 \rightarrow \frac{2}{\pi}x - 3 = y_3$$



$$W_{A1} = \frac{-x}{\pi} + 0,5, x \in [-\pi/2, \pi/2]$$

$$W_{A2} = \begin{cases} \frac{x}{\pi} + 0,5, & x \in [-\pi/2, \pi/2] \\ -\frac{x}{\pi} - 1,5, & x \in [\pi/2, 3\pi/2] \end{cases}$$

$$W_{A3} = \frac{x}{\pi}, x \in [\pi/2, 3\pi/2]$$

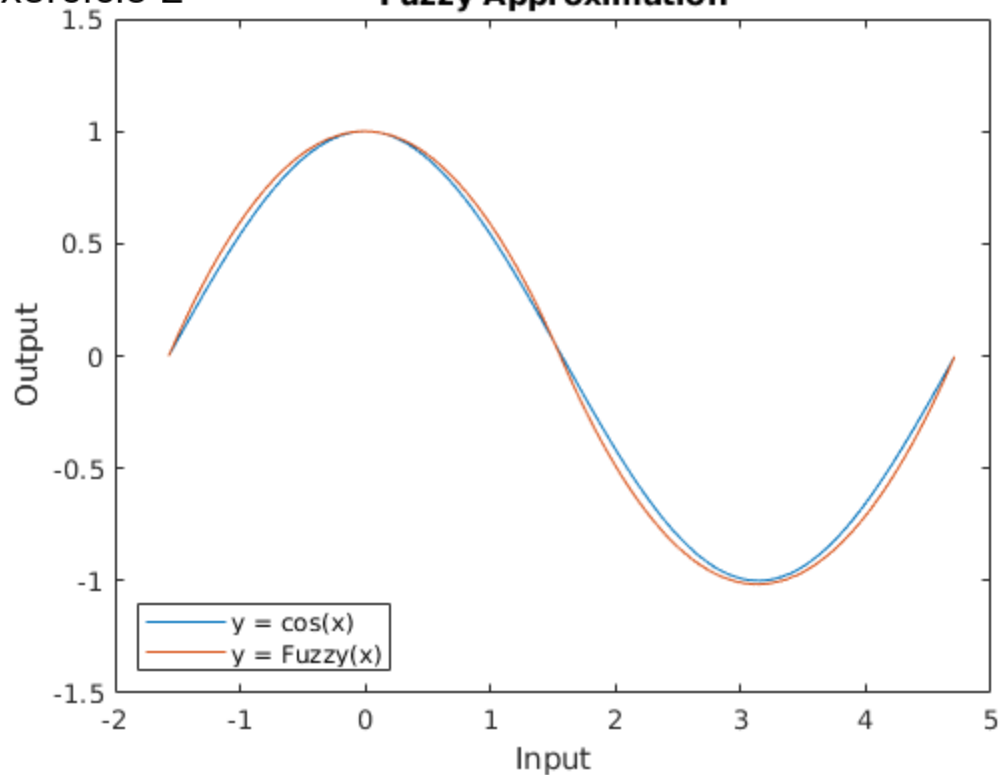
$$W_{A2} = -\frac{x}{\pi}$$

$$\hat{y} = \frac{W_{A1} y_1 + W_{A2} y_2 + W_{A3} y_3}{W_{A1} + W_{A2} + W_{A3}}$$

sendo $W_{A1}, W_{A2}, W_{A3}, y_1, y_2, y_3$ as funções definidas anteriormente

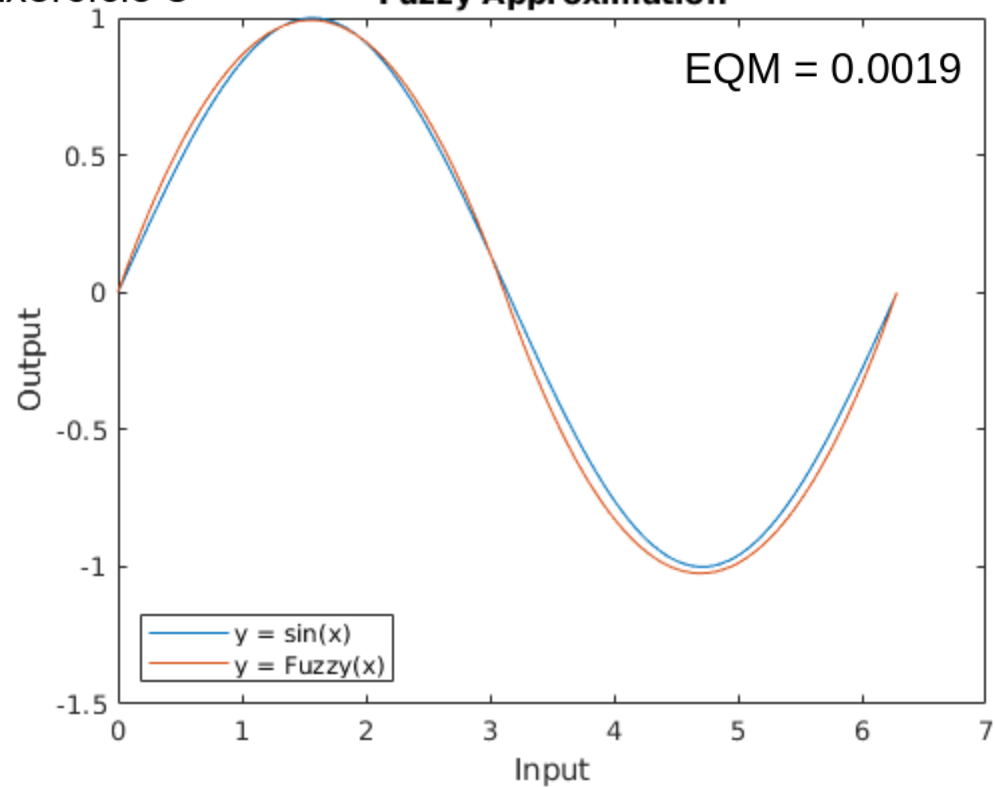
Exercício 2

Fuzzy Approximation



Exercício 3

Fuzzy Approximation



Exercício 4

