



may 15-02:27 p.m.

Punto 3)

$$\chi_1 = 0.5[-h(\chi_1) + \chi_2]$$

$$\chi_2 = 0.2[-\chi_1 - 1.5\chi_2 + 1.2]$$

donde:

$$f(\chi) = 17.7 \chi_1 - 103.79\chi_1^2 + 229.62\chi_1^3 - 226.3 \chi_1^4 + 83.72\chi_1^5$$

$$\Rightarrow 0 = 0.2[-\chi_1 - 1.5\chi_2 + 1.2]$$

$$0 = -\chi_1 - 1.5\chi_2 + 1.2$$

Despejando χ_2 :

$$\chi_2 = \frac{-\chi_1 + 1.2}{1.5}$$

Reemplazando χ_2 :

$$0 = 0.5[-h(\chi_1) + (-0.67\chi_1 + 0.8)]$$

$$f = 17.7 \chi_1 + 103.79\chi_1^2 - 229.62\chi_1^3 + 226.3 \chi_1^4 - 83.72\chi_1^5 - 0.67\chi_1 + 0.8$$

$$f = -83.72\chi_1^5 + 226.3 \chi_1^4 - 229.62\chi_1^3 + 103.79\chi_1^2 - 18.43 \chi_1 + 0.8$$

Revisar el código donde aparece el punto 3a

Puntos de Eq.

$P_1 (0.8836, 0.2109)$

$P_2 (0.2957, 0.6095)$

$P_3 (0.0626, 0.7583)$

may 15-03:05 p.m.

4)

$$\chi_1 = \chi_1^2 + 2\chi_1\chi_2 + \chi_2^2 - 1$$

$$\chi_2 = \chi_1^2 - 2\chi_1\chi_2 + \chi_2^2 - 1$$

$$0 = \chi_1^2 + 2\chi_1\chi_2 + \chi_2^2 - 1$$

$$0 = \chi_1^2 - 2\chi_1\chi_2 + \chi_2^2 - 1$$

$$(\chi_1 + \chi_2)^2 - 1 = 0 \Rightarrow (\chi_1 + \chi_2)^2 = 1$$

$$(\chi_1 - \chi_2)^2 - 1 = 0 \Rightarrow (\chi_1 - \chi_2)^2 = 1$$

$$(\chi_1 + \chi_2)^2 = (\chi_1 - \chi_2)^2$$

$$\chi_1 + \chi_2 = \chi_1 - \chi_2$$

$$2\chi_2 = 0$$

$$\chi_2 = 0$$

en χ_1 :

$$0 = \chi_1^2 - 1$$

$$\chi_1 = \pm 1$$

en χ_2

(1,0)

(-1,0)

si $\chi_1 = 1$ en χ_2 :

$$1 - 2\chi_1\chi_2 + \chi_2^2 - 1 = 0$$

$$\chi_2(1 - 2) = 0$$

$$\chi_2 = 0$$

$$\chi_2 = 2$$

$$\chi_2 = 2$$

(1,2)

si $\chi_1 = -1$ en χ_2 :

$$1 - 2\chi_1\chi_2 + \chi_2^2 - 1 = 0$$

$$\chi_2(-2 + 1) = 0$$

$$\chi_2 = 0$$

$$\chi_2 = -2$$

$$\chi_2 = -2$$

(-1,-2)

may 15-03:33 p.m.