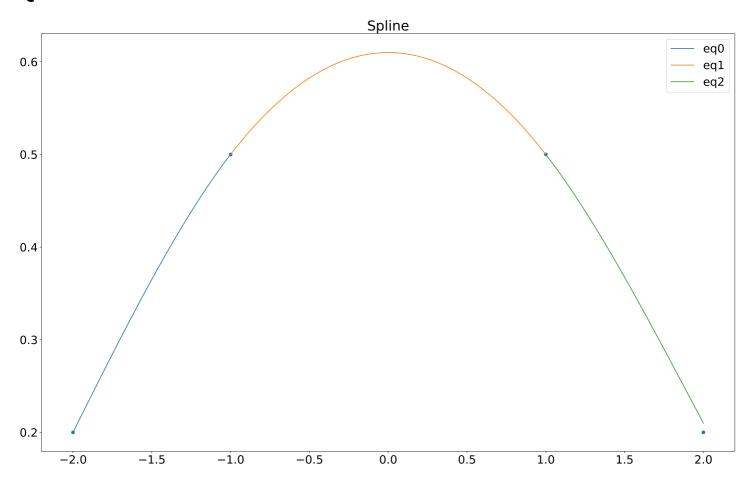
Eliton Machado da Silva

7)

Algoritmo spline

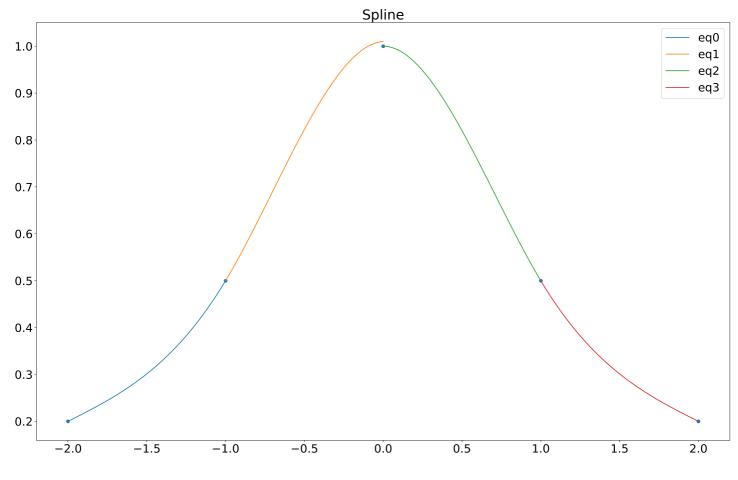
Questão 1:



$$eq0 = 0.2 + 0.34 * (x + 2) + 0.00 * (x + 2) * *2 - 0.04 * (x + 2) * *3$$

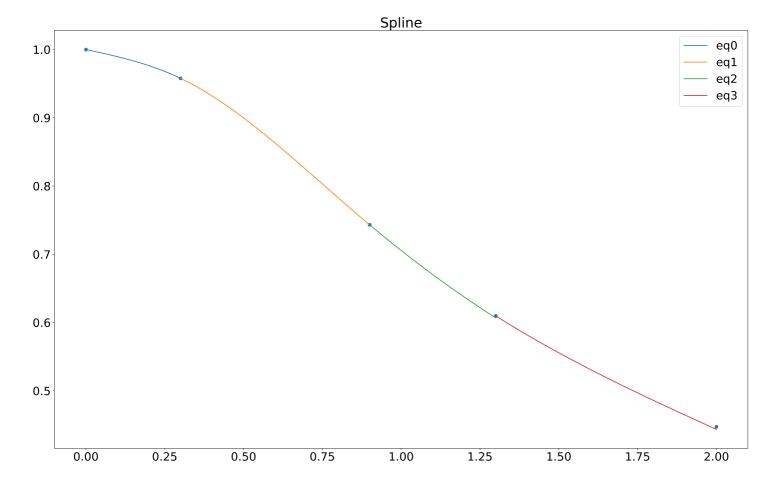
 $eq1 = 0.5 + 0.22 * (x + 1) - 0.11 * (x + 1) * *2 - 0.00 * (x + 1) * *3$
 $eq2 = 0.5 - 0.22 * (x - 1) - 0.11 * (x - 1) * *2 + 0.04 * (x - 1) * *3$

Questão 2:



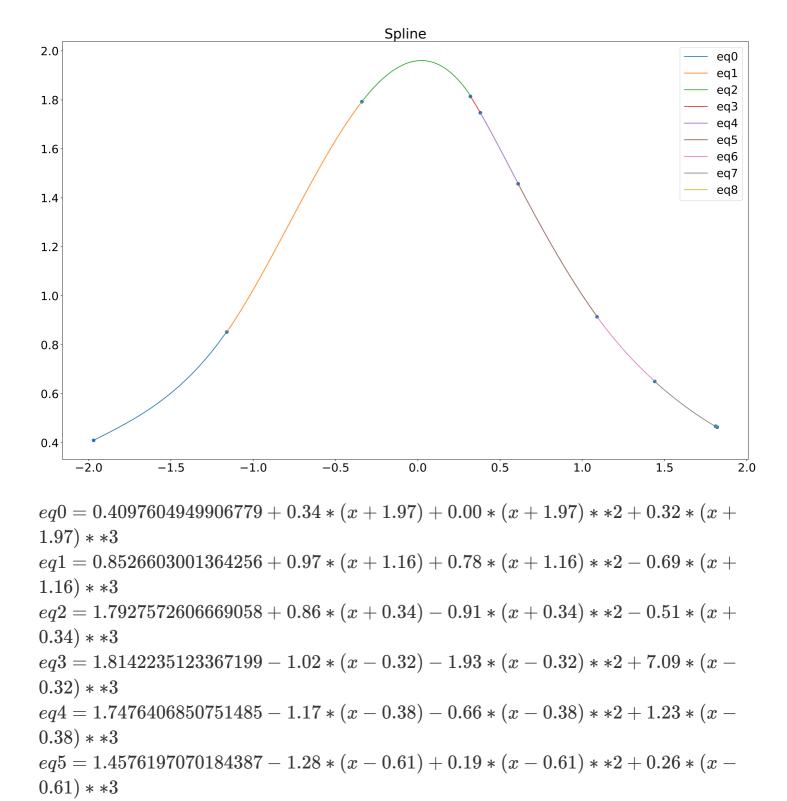
$$\begin{array}{l} eq0 = 0.2 + 0.17*(x + 2) + 0.00*(x + 2)**2 + 0.13*(x + 2)**3 \\ eq1 = 0.5 + 0.56*(x + 1) + 0.39*(x + 1)**2 - 0.44*(x + 1)**3 \\ eq2 = 1.0 + 0.00*(x + 0) - 0.94*(x + 0)**2 + 0.44*(x + 0)**3 \\ eq3 = 0.5 - 0.56*(x - 1) + 0.39*(x - 1)**2 - 0.13*(x - 1)**3 \end{array}$$

Questão 3:



 $eq0 = 1.0 - 0.10*(x+0) + 0.00*(x+0) **2 - 0.45*(x+0) **3 \\ eq1 = 0.9578262852211513 - 0.22*(x-0.3) - 0.41*(x-0.3)*2 + 0.30(x-0.3)3eq2 = 0.7432941462471663 - 0.39(x-0.9) + 0.13(x-0.9)*2 - 0.02(x-0.9)3eq3 = 0.6097107608496923 - 0.29(x-1.3) + 0.11(x-1.3)*2 - 0.05(x-1.3)**3$$

Questão 4:



eq6 = 0.9140350075407887 - 0.92 * (x - 1.09) + 0.56 * (x - 1.09) * *2 - 0.21 * (x - 1.09) + 0.56 * (x - 1.09) * *2 - 0.21 * (x - 1.09) * *2 - 0.21 * (x - 1.09) * *2 - 0.21 * (x - 1.09) * *3 - 0.21 * (x - 1.09) * (x -

eq7 = 0.6507027589796981 - 0.61*(x - 1.44) + 0.34*(x - 1.44) **2 - 0.10*(x - 1.44) + 0.34*(x - 1.44) **2 - 0.10*(x - 1.44) **2 - 0

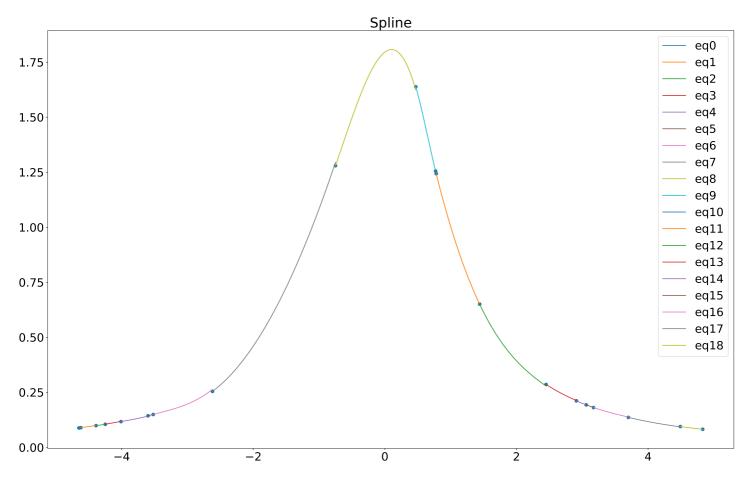
eq8 = 0.4677159093566568 - 0.40*(x - 1.81) + 0.23*(x - 1.81)**2 - 7.73*(x - 1.81)

Questão 5:

1.09) **3

1.44) **3

1.81) * *34



$$\begin{array}{l} eq0 = 0.08840755884628135 + 0.04*(x + 4.65) + 0.00*(x + 4.65)**2 + 0.13*(x + 4.65)**3\\ eq1 = 0.0895078856447253 + 0.04*(x + 4.62) + 0.01*(x + 4.62)**2 + 0.00*(x + 4.62)**3\\ eq2 = 0.09865776115942602 + 0.04*(x + 4.39) + 0.01*(x + 4.39)**2 + 0.01*(x + 4.39)**3\\ eq3 = 0.10491803278688525 + 0.05*(x + 4.25) + 0.02*(x + 4.25)**2 + 0.00*(x + 4.25)**3\\ eq4 = 0.1170953331654967 + 0.05*(x + 4.01) + 0.02*(x + 4.01)**2 + 0.01*(x + 4.01)**3\\ eq5 = 0.14326647564469913 + 0.08*(x + 3.6) + 0.03*(x + 3.6)**2 - 0.23*(x + 3.6)**3\\ eq6 = 0.14936073604970726 + 0.08*(x + 3.52) - 0.02*(x + 3.52)**2 + 0.08*(x + 3.52)**3\\ eq7 = 0.2543105640608311 + 0.22*(x + 2.62) + 0.18*(x + 2.62)**2 - 0.00*(x + 2.62)**3\\ eq8 = 1.28 + 0.86*(x + 0.75) + 0.16*(x + 0.75)**2 - 0.52*(x + 0.75)**3\\ eq9 = 1.638135801457941 - 1.04*(x - 0.47) - 1.73*(x - 0.47)**2 + 3.19*(x - 0.47)**3\\ eq10 = 1.2555715989704312 - 1.22*(x - 0.77) + 1.14*(x - 0.77)**2 - 20.99*(x - 0.77)**3\\ eq10 = 1.2434717731907485 - 1.20*(x - 0.78) + 0.51*(x - 0.78)**2 - 0.08*(x - 0.77)**3\\ eq11 = 1.2434717731907485 - 1.20*(x - 0.78) + 0.51*(x - 0.78)**2 - 0.08*(x - 0.78)**2 - 0.08*$$

```
\begin{array}{l} 0.78)**3\\ eq12=0.6507027589796981-0.63*(x-1.44)+0.36*(x-1.44)**2-0.10*(x-1.44)**3\\ eq13=0.2856122813280971-0.19*(x-2.45)+0.07*(x-2.45)**2-0.00*(x-2.45)**3\\ eq14=0.21123562277542482-0.13*(x-2.91)+0.07*(x-2.91)**2-0.05*(x-2.91)**3\\ eq15=0.19298313327415184-0.11*(x-3.06)+0.05*(x-3.06)**2-0.01*(x-3.06)**3\\ eq16=0.18101349455601914-0.10*(x-3.17)+0.04*(x-3.17)**2-0.01*(x-3.17)**3\\ eq17=0.13614703880190604-0.07*(x-3.7)+0.02*(x-3.7)**2-0.00*(x-3.7)**3\\ eq18=0.09451751173198612-0.04*(x-4.49)+0.01*(x-4.49)**2-0.01*(x-4.49)**3\\ \end{array}
```