Primer ejercicio

F1 = 2.7x^2 - 2.8x + 3

F2 = 5.4x – 2.8

F3 = 5.4

X=0.4

H=0.1

Xi+i=0.5

Orden 0

f(0.5) = f(0.4) = 2.9664

Orden 1

F(0.5) = -2.9664 + f1(0.4) x 0.1

F(0.5) = -2.9664 + 0.2312

F(0.5) = -2.7352

Orden 2

F(0.5) = -2.7352 + f2(0.4) x 0.1

F(0.5) = -2.7352 – 0.064

F(0.5) = -2.7992

Orden 3

F(0.5) = -2.7992 + f3(0.4) x 0.1

F(0.5) = -2.7992 + 0.54

F(0.5) = -2.2592

Segundo ejercicio

Derivada

F= 1,4e^x -3,2x + 3,2

F1= 1,4e^x – 3,2

F2= 1,4e^x

F3= 1,4e^x

X= 0.5

H= 0.05

Xi+i= 0.55

Orden 0

F(0,55) = f(0,5)= 3,908

Orden 1

F(0,55) = 3,908 + f1(0.5) x 0,05

F(0.55)= 3.908 – 0.44

F(0,55) = 3.864

Orden 2

F(0,55) = 3.864 + f2(0,5) x 0,05

F(0,55) = 3.864 + 0.115

F(0,55) = 3,979

Orden 3

F(0,55) = 3,979 + f3(0,5) x 0,05

F(0,55) = 3,979 + 0.115

F(0,55) = 4,094