Pseudocódigo

Float Fx(Float x)

Declarar a = -2, b = 2, h = 0.25, n, x[n], Fpa[n], Fpb[n], Fpc[n], sda[n], sdb,[n], sdc[n], i

For i = 0 hasta n
  x[i] = a + i * h

For i = 0 hasta i = n
  $Fpa[i] = \frac{F(x[i+1]) - F(x[i])}{h}$

  $Fpb[i] = \frac{F(x[i]) - F(x[i-1])}{h}$

  $Fpc[i] = \frac{F(x[i+1]) - F(x[i-1])}{h}$

Imprimir "Primera derivada"
Imprimir " x Adelante Atrás Centrada", x[i], Fpa[i], Fpb[i], Fpc[i]

For i = 0 hasta i = n
  $sda[i] = \frac{F(x[i+2]) - 2 * F(x[i+1]) + F(x[i])}{h * h}$

  $sdb[i] = \frac{F(x[i-2]) - 2 * F(x[i-1]) + F(x[i])}{h * h}$

  $sdc[i] = \frac{F(x[i+1]) - 2 * F(x[i]) + F(x[i-1])}{h * h}$

Imprimir "Segunda derivada"
Imprimir "x Adelante Atrás Centrada", x[i], sda[i], sdb[i], sdc[i]

Float Fx (Float x)
  regresar x * x * x - 2 * x + 4

Diagrama de Flujo