```
1 import math
 4 def f(x):
       #return x*x*x - 2*x*x + x + 3
       return -5 + 5*x
10 def dividedDiff(x, y, n, i, j):
      if (i == j):
          return y[i]
           return (dividedDiff(x, y, n, i+1, j) - dividedDiff(x, y, n, i, j-1)) / (x[j] - x[i])
def newtonDividedDiff(x, y, n, x0):
      sum = y[0]
       for i in range(1, n):
           sum += (dividedDiff(x, y, n, 0, i) * (x0 - x[i-1]))
23 x = [4, -6]
24 y = [15, -35]
28 y = [f(xi) for xi in x]
29 '''
30 	 x0 = -5
31 result = newtonDividedDiff(x, y, n, x0)
32 print(f"\nP({x0}) = {:result}\n")
```

```
n3.11.exe "c:/Users/luisa/OneDrive - up.edu.mx/Documents/UP/CUARTO SEMES TRE/CÁLCULO NUMÉRICO/DifDivNewton.py "

P(-5) = -30.0

PS C:\Users\luisa\OneDrive - up.edu.

mx\Documents\UP\CUARTO SEMESTRE\CÁLC
```