```
1 import math
   def DD(x, y, yd, n):
       dd = [[0] * n for _ in range(n)]
       for i in range(n):
           dd[i][0] = y[i]
           dd[i][1] = yd[i]
      for j in range(2, n):
           for i in range(n · j):
               dd[i][j] = (dd[i + 1][j - 1] - dd[i][j - 1]) / (x[i + j] - x[i])
        return dd
16 def Hermite(x, y, yd, n, num):
       dd = DD(x, y, yd, n)
       res = y[0]
       for i in range(1, n):
           prod = dd[0][i]
           for j in range(i):
               prod *= (num - x[j])
           res += prod
       return res
30 x = [0,0.25]
31 y = [0,1]
32 yd = [math.pi , 2*math.pi]
33 x0 = 0.125
34 v = Hermite(x, y, yd, x.__len__(), x0)
35 print("\nP(", x0, ") = ",round(v,5),"\n")
```

```
up.edu.mx/Documents/UP/CUARTO SEMES
TRE/CÁLCULO NUMÉRICO/hermite2.py"
P( 0.125 ) = 0.3927
PS C:\Users\luisa\OneDrive - up.edu.
```