import math

import numpy as np

a = 0.5

b = 1

e = 0.0001

def d(x):

return x \*\* 3 + x - 1

def d1(x): #производная

return 3 \* x \*\* 2 + 1

def d2(x): #вторая производная

return 6 \* x

f = d(a)

f2 = d2(a)

if f \* f2 > 0:

x = b

z = a

else:

x = a

z = b

fz = d(z)

h = x - ((d(x)) / d(x) - d(a)) \* (x - a)

while abs(h) >= e:

f = d(x)

h = ((x - z) \* f) / (f - fz)

x = x - h

f = d(x)

print('Metod Hord\nx =', x, '\nf(x) =', f)