

Exercice 1

①

import math as m

def somme(n):

s = 0

for k in range(3, n+6):

s = s + math.log(k*k/(k+m))

return s

②

(a)

def bernoulli(a, b, n):

s = 0

for k in range(n+1):

s = s + (a**k) * b**(n-k)

return s

(b)

 $(m \cdot \pi) - m \cdot \sqrt{6}) * \text{bernoulli}(m \cdot \pi, m \cdot \sqrt{6}, 4)$

(c)

c'est... $\text{bernoulli}(b, a, n)$

(d)

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def test(a, b, n):
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    s = bernoulli(a, b, n)
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    return (a - b) * s == a * b * (n + 1)
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