' Trapezoidal rule

' for function f(x)= y(x) = x^2

Dim f(99)

a = 0

b = 1

n = 88

h = (b - a) / n

'

For k = 0 To n

x = a + k \* (b - a) / n

v = x ^ 2

f(k) = v

Next k

'

i = 0

For k = 1 To n - 1

i = i + h \* f(k)

Next k

i = i + (f(0) + f(n)) \* h / 2

MsgBox i

d1 = Abs(i - 1 / 3)

MsgBox d1

d2 = Abs(2 / (12 \* n ^ 2))

MsgBox d2

dd = Abs(d1 - d2)

MsgBox dd