Question:

How do you use calculus?

Question:

Round your student number to 7 significant figures.

Question:

Watch calculus lectures series

youtube.com/watch?v=LWPzHlSBlxI&list=PLHXZ9OQGMqxfT9RMcReZ4WcoVILP4k6-m

Question:

Investigate this function

Maximum for x = T.

desmos.com/calculator

Question:

Prove formular of Euler

C = 1

Question:

Compare predictions, using Markov chain, averages, least squares linear fit for (2, m2), (3, m3), (4, m4).

Dim x(3), y(3)

s = 23123456

m = 3

x(1) = 2

x(2) = 3

x(3) = 4

y(1) = s mod 2

y(2) = s mod 3

y(3) = s mod 4

sx = 0

For j = 1 To m

sx = sx + x(j)

Next j

sy = 0

For j = 1 To m

sy = sy + y(j)

Next j

sxy = 0

For j = 1 To m

sxy = sxy + x(j) \* y(j)

Next j

sx2 = 0

For j = 1 To m

sx2 = sx2 + x(j) ^ 2

Next j

g = (m \* sxy - sx \* sy) / (m \* sx2 - sx ^ 2)

i = (sy - g \* sx) / m

‘MsgBox g

‘MsgBox i

MsgBox y(3)

sum =0

For c = 1 to 3

sum = sum + y(c)

Next c

MsgBox sum/3

MsgBox 5\*g+ i

MsgBox s mod 5

For maximum second derivative is negative.

For minimum second derivative is positive.

Questions:

Is second derivative positive or negative for maximum?

Is second derivative positive or negative for minimum?

Find minimum

Questions:

Find the smallest perimeter rectangle with area of T.

A = xy

A = Area

P = Perimeter

x = width

y = height

P = 2x + 2y

A = T

Calculate the smallest perimeter right-angled triangle with area of T.

Both legs are the same: a = b.

Find minimum surface area cylinder for the volume of T.

R = H

Calculate minimum surface area cone for the volume of T.

R = H

Calculate the smallest perimeter scalene triangle with area of T.

a = b = c.

Question:

Explain the concepts, formulas, equations, laws, theories of the calculus.