

Multivariable Calculus

Two Points in a Square

Task Use Numbers to find the average distance between two random points in the square with vertices $(0, 0)$, $(0, 1)$, $(1, 0)$ and $(1, 1)$.

Functions The following functions may be useful:
=RAND: Gives a random number between 0 and 1
=SQRT(): Calculates the square root of the number in parenthesis
=SUM(:): Calculates the sum of all the cells ranged in parenthesis
=AVG(:): Calculates the average of all the cells ranged in parenthesis

Extension 1 Find the average distance between two random points in the unit circle.

Extension 2 Read about the Bertrand paradox.