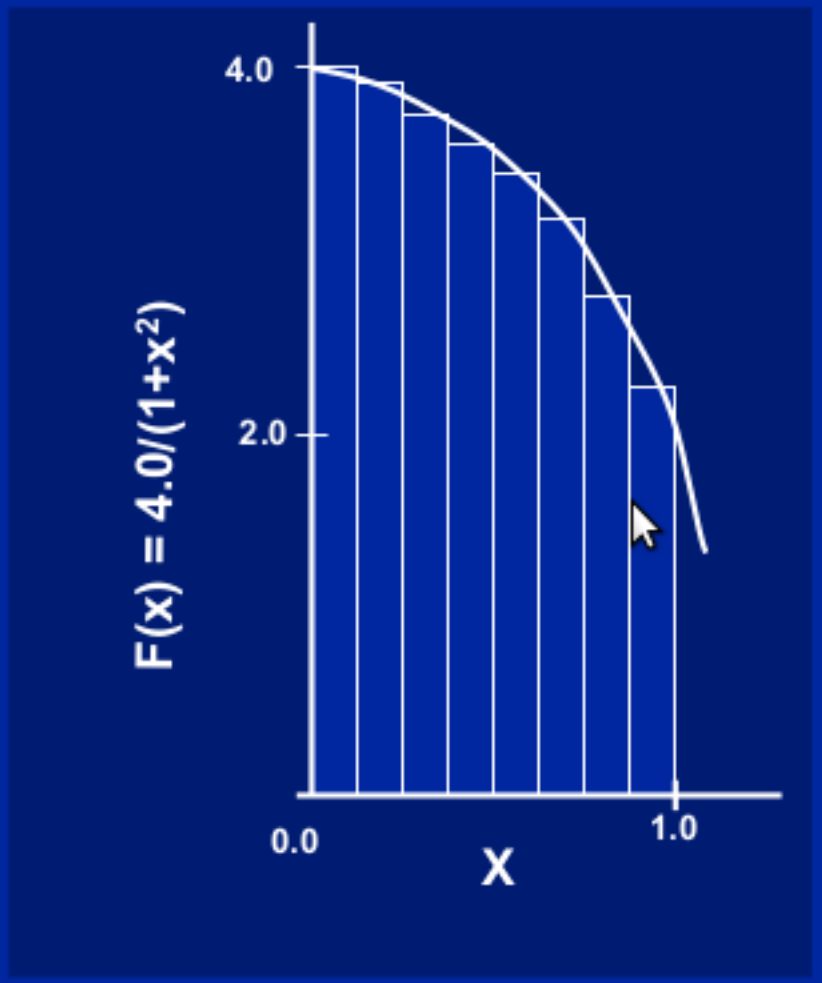
Υπολογισμός π με ολοκλήρωση



Mathematically, we know that:

$$\int_0^1 \frac{4.0}{(1+x^2)}\,dx = \pi$$

We can approximate the integral as a sum of rectangles:

$$\sum_{i=0}^{N} F(x_i)\Delta x \approx \pi$$

Where each rectangle has width Δx and height $F(x_i)$ at the middle of interval i.

Tim Mattson and Larry Meadows, “Hands-On Introduction to OpenMP”, Supercomputing 2008
https://www.openmp.org/wp-content/uploads/omp-hands-on-SC08.pdf

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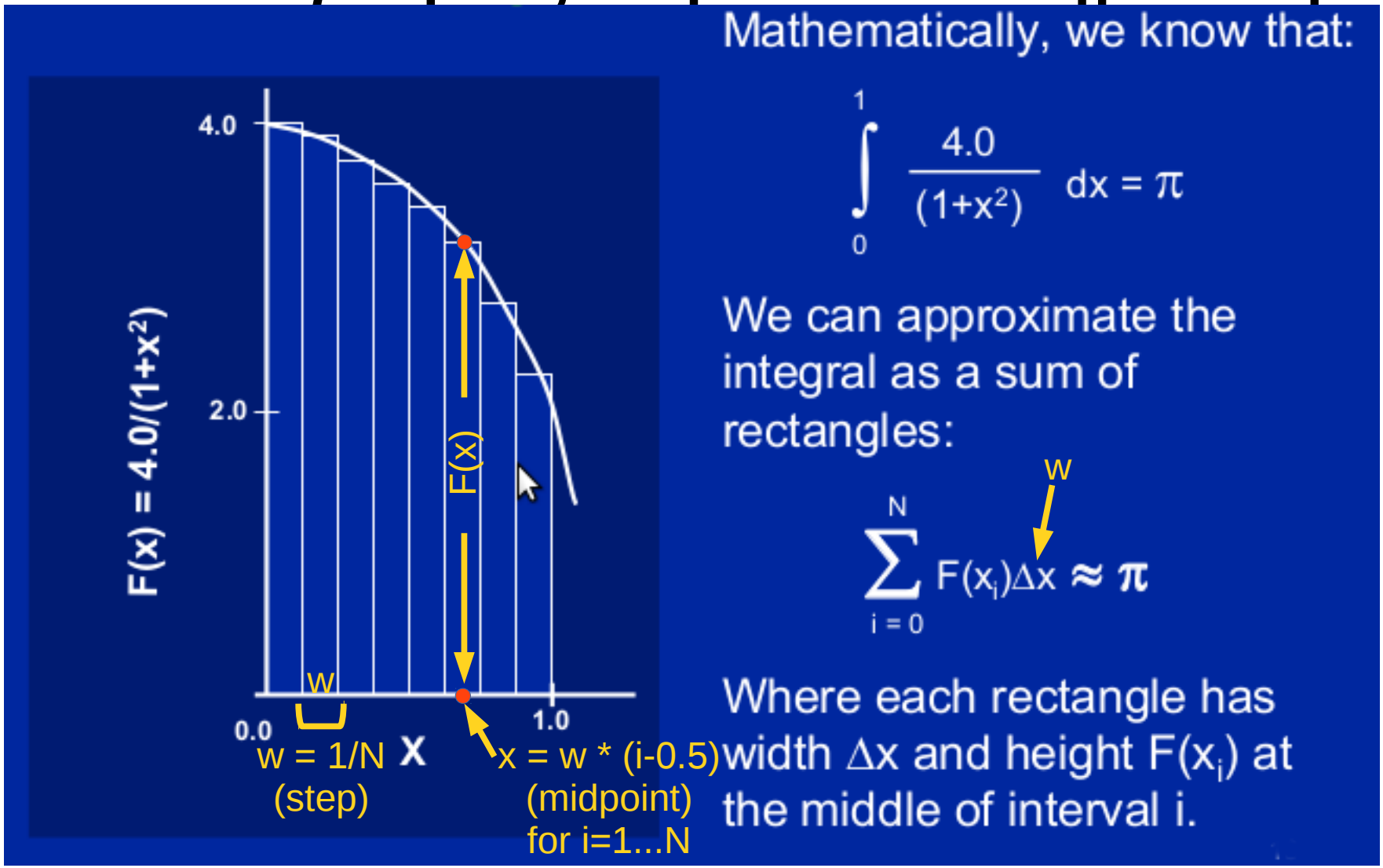

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