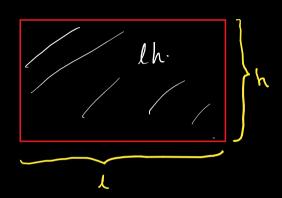
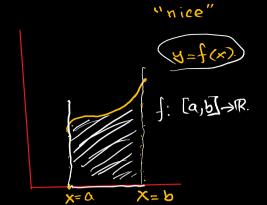
Integral calculus

600 - 300 BC (Ancient Greece)

Area of non rectilinear regions of the form





J: [a,6] → 1R.

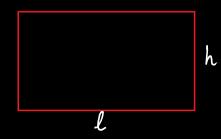
Differential calculus. 1680 AD.

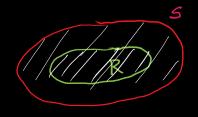
Three axioms:

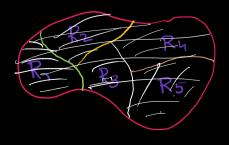
- Area of a rectangle (1xh)
- RSS => ARSAS
- $R = R_1 \cup \cdots \cup R_n \Rightarrow A_R = A_{R_1} + A_{R_2} + \cdots + A_{R_n}$

provided Riski possibly intersect at the boundary

points







Method of exhaustion; Goal: "Squeeze" the region between physical or mental two networks of rectangles: tiredness

