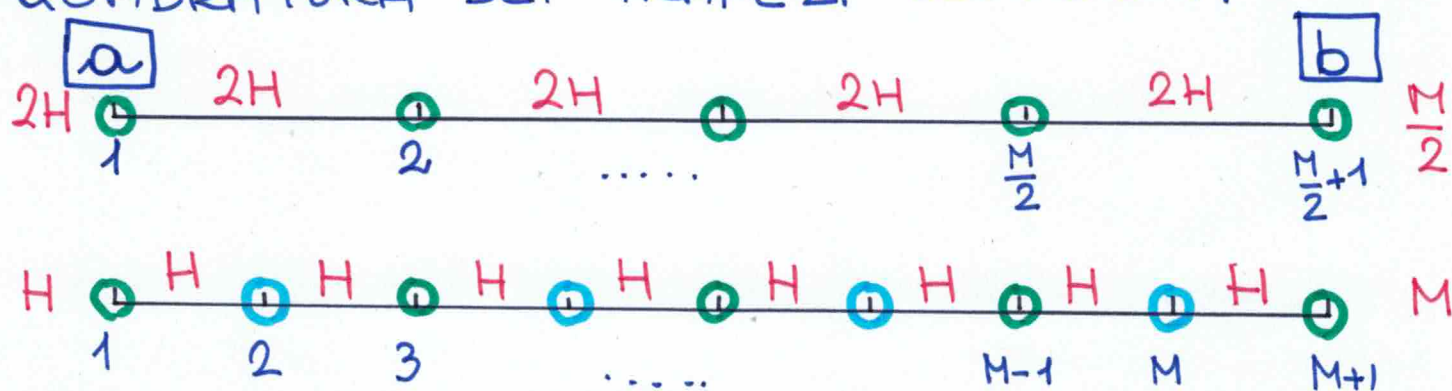


IMPLEMENTAZIONE DELLA FORMULA DI QUADRATURA DEI TRAPEZI COMPOSITI



Numeraazione nodi MATLAB: a_1, a_2, a_3, \dots

Attuale: Passo H

Precedente: Passo $2H$

new old

n° intervalli M

n° intervalli $\frac{M}{2}$

n° nodi $M+1$

n° nodi $\frac{M}{2}+1$

$$\tilde{I}_{2H} = \left[f(a) + 2 \sum_{i=2}^{M/2} f(a_i) + f(b) \right] \frac{2H}{2} = [] * H$$

$$\tilde{I}_H = \left[f(a) + 2 \sum_{i=2}^M f(a_i) + f(b) \right] \frac{H}{2} =$$

$$\left[f(a) + 2 \sum_{i=3}^{M-1} f(a_i) + f(b) \right] \frac{H}{2} + \left[2 \sum_{i=2}^M f(a_i) \right] \frac{H}{2}$$

dispari pari

PRECEDENTE = $\tilde{I}_{2H} : H$

ATTUALE

$$\tilde{I}_H = \left\{ \frac{1}{H} \tilde{I}_{2H} + \left[2 \sum_{i=2}^M f(a_i) \right] \right\} \frac{H}{2}$$

pari