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Trapeco simple:
        J = \int_{a}^{b} f(x)dx \longrightarrow f(x) \approx f_{1}(x) = x-b \quad f(a), \quad x-a \quad f(b)
a-b \quad b-a
    \int_{a}^{b} \frac{x-b}{a-b} \int_{b-a}^{a} f(b) dx = \left[ \frac{x-b}{a-b} \right] \int_{a-b}^{a} \frac{1}{a-b} = cte
     \longrightarrow \left[ \begin{array}{c} b \\ (x-b) \end{array} \right] \int \left[ (x-a) \int (x-a) \int (b) dx = \int \left[ (a) \left[ \frac{x}{2} \right] - bx \right] \left[ \frac{x^2}{2} - ax \right] \left[ \frac{x^2}{2} \right] dx 
             = f(a)\left(\frac{b^2}{2} - b^2 + ab - \frac{a^2}{2}\right) + f(b)\left(\frac{b^2}{2} + ab + \frac{a^2}{2} - a^2\right) + con \frac{1}{a - b} queda...
\int_{a}^{b} f_{1}(x) = 1 \left[ \left( f(a) + f(b) \right) \left( -b^{2} - a^{2} + ab \right) \right] = -1 \left( b^{2} - a^{2} - 2ab \right) \left( f(a) + f(b) \right)
                                          = -(a-b)^{2} \left[ f(a) + f(b) \right] = b-a \left[ f(a) + f(b) \right]
= 2(a-b)^{2} \left[ f(a) + f(b) \right]
                                   \int_{a}^{b} f(x)dx \approx \int_{a}^{b} f_{1}(x)dx = b-a \left[ f(a) + f(b) \right]
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