Taller Integración.

Error regla trapeció simple.

$$f''(\xi) = cte \qquad \qquad (h=b-q)$$

$$f(x) = f''(x) (x-a(x-b)) - h=a-b$$

$$f(x) = \frac{f''(x)}{2} \int_{(x-a)(x-b)}^{(x-a)(x-b)} dx = \frac{f''(x)}{2} \cdot \frac{1}{6} (a-b)^3$$

4). 
$$E = \int_{a}^{b} E(x) dx = \int_{a}^{b} \frac{f'''(\xi)(x-x_0)(x-x_1)(x-x_2)dx}{4!}$$

La integral indefinida equivale: a

$$\int (x-a)(x-b)(x-\frac{a+b}{2})dx = \frac{1}{4}\chi(a^2(x-2b)-2a(b-x)^2+\chi(b-x)^2+c$$

$$\left[\frac{1}{4}b(a^{2}(b-2b)-2a(b-b)^{2}+x(b-b)^{2}\right]-\left[\frac{1}{4}a(a^{2}(a-2b)-2a(b-a)^{2}\right]$$

$$+a(b-a)^2 = 0$$

$$E = \frac{\int \frac{1}{4!} \frac{1}{5!} \int \frac{1}{5!} (x - x_0)(x - x_1)(x - x_2)(x - x_3) dx}{h} = \frac{b - a}{3}$$

$$E = \frac{\int \frac{1}{4!} \frac{1}{5!} \int \frac{1}{5!} (x - a_1)(x - x_2)(x - x_3) dx}{h} = \frac{b - a}{3}$$

$$= \frac{\int \frac{1}{4!} \frac{1}{5!} \int \frac{1}{5!} (x - a_1)(x - \frac{2a + b}{3})(x - \frac{(a + 2b)}{3})(x - b) dx}{h} = \frac{\int \frac{1}{4!} \frac{1}{5!} \int \frac{1}{5!} (x - a_1)(x - \frac{2a + b}{3})(x - \frac{(a + 2b)}{3})(x - b) dx}{h} = \frac{\int \frac{1}{4!} \frac{1}{5!} \int \frac{1}{5!} (x - a_1)(x - \frac{2a + b}{3})(x - \frac{a_1 + 2b}{3})(x - b) dx}{h} = \frac{\int \frac{1}{4!} \frac{1}{5!} \int \frac{1}{5!} (x - a_1)(x - \frac{2a + b}{3})(x - \frac{a_1 + 2b}{3})(x - b) dx}{h} = \frac{\int \frac{1}{4!} \frac{1}{5!} \int \frac{1}{5!} (x - a_1)(x - \frac{a_1 + 2b}{3})(x - \frac{a_1 + 2b}{3})(x - b) dx}{h} = \frac{\int \frac{1}{4!} \frac{1}{5!} \int \frac{1}{5!} (x - a_1)(x - \frac{a_1 + 2b}{3})(x - \frac{a_1 + 2b}{3})(x - b) dx}{h} = \frac{\int \frac{1}{4!} \frac{1}{5!} \int \frac{1}{5!} (x - a_1)(x - \frac{a_1 + 2b}{3})(x - \frac{a_1 + 2b}{3})(x - b) dx}{h} = \frac{\int \frac{1}{4!} \frac{1}{5!} \int \frac{1}{5!} (x - a_1)(x - \frac{a_1 + 2b}{3})(x - \frac{a_1 + 2b}{3})(x - b) dx}{h} = \frac{\int \frac{1}{4!} \frac{1}{5!} \int \frac{1}{5!} (x - a_1)(x - \frac{a_1 + 2b}{3})(x - a_1)(x - \frac{a_1 + 2b}{3})(x - a_1)(x - a_1)($$

