

f(x) = (tank) f(x) = 1 (tan(2)) sect(x) $f'(x) = \sec^2(x)$ 2 \(\text{fan}(x) \) $D^4 f(x_j) \sim f(x_{j+1}) - 4 f(x_{j+1}) + 6 f(x_j) - 4 f(x_{j-1}) + f(x_{j-1})$ 5) $f'(x) = f(x+h) - 2f(x) + f(x-h) + o(h^2)$ $f'(x) \approx f(x_{j+1}) - 2f(x_j) + f(x_{j-1})$ Siendo $f'(x_j) = f(x)$ $f'(x) = \frac{f(x_{j+1}) - 2f(x_{j+1}) + f(x_{j}) - 2f(x_{j+1}) + f(x_{j+1}) + f(x_{j$ $=\frac{1}{h^{4}}\left[f(x_{j+2})-2f(x_{j+1})+f(x_{j})-2f(x_{j+1})+4f(x_{j})-2f(x_{j-1})+f(x_{j})-2f(x_{j-1})+f(x_{j-2})\right]$ $D^{4}f(x_{j}) = \frac{1}{h^{4}} \left[f(x_{j+2}) - 4J(x_{j+1}) + 6J(x_{j}) - 4J(x_{j-1}) + J(x_{j-2}) \right]$ orden: ht - o(ht)