

Scribe (5)Demostrar $D_{A} f(x^{2}) = \frac{1}{4} (x^{2}+5) - Af(x^{2}+7) + 2f(x^{2}-5) + 2f(x^{2}-5)$ A $f'(x) = \frac{f(x+h)-2f(x)}{h^{2}} + \frac{f(x-h)}{h^{2}} + \frac{f(x-h)}{h^{2}}$ $b_{11}(x) = b(x+y) - 5b(x) + b(x-y) + D(y_5)$ b(x+y)= f(x+y+y)-st(x+y)+ f(x-y+y) +0(y,5) b(x-y)= f(x+y-y)-5f(x-y) + f(x-y-y) + O(ys) @ Ahoan se reemplaza (1), (3) y (1) en (2) $\rho''(x) = \int \frac{f(x) - 2f(x+h) + f(x)}{h^2} + O(h)^2 - 2(\frac{f(x+h) - 2f(x) + f(x-h)}{h^2} + O(h)^2) + ...$ [f(x+2h)-2f(x+h)+f(x)-2f(x+h)+4f(x)-2f(x-h)+f(x)-2f(x-h)+f(x-2h)]+0(h)2 h2 6, (x) = t(x+xp) - A f (x+p) + e f(x) - A f(x-p) + f(x+5p) + O(p) = DA f(x) Dy f(x:)= 7(x:+s)-A E(x:+1) + 62(x:) - A E(x:-1) + 7(x:+s) + 0 (P)s 8/ orden & 2 (0(h2))

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