

Have about fex: +1) = fex: + hfix: + R. f(x:-2) = f(x:) - 2hf'(x:) + 2:h2f'(x:) + P z + O(h3) f(x:-2)=f(x:)-2hf'(xi)+2h2f'(xi) f(x;-2)-f(x:) = h2 (x:)-2hf(x:) (: f(x:-2)-f(x)) = h2f'(xx) - 2f(x) + 2f(x:-1) - 12 f (x:)= f(x:-2) - f(x:) - 2 f(x:-1) + 2 f(x:) f'(x) = f(x; -2) - 2f(x; -1) + f(x;)

f(x:+1) = f(xi) + hf(xi) + xif(xi) + O(h) Ecx: -1)=f(x:)-hf(x:)+M2F"(x:)+O(h3) Fex:+1) + fex:-1) = 2fex: 1 + h2f'(x:) + 0//31 f(x:+1)+f(x:-1)-2f(xi)=f'(xi)

Tercera de ferenca fanta husa addante some F(x:+1) = f(xi) + f(xi)h + D(B) f(x:+2)=f(x:)+2hf'(x:)+(2h)f(x:)+O(h3) f(x=+3)=f(x=)+3hf'(xi)+(3h)2f"(xi)+(3h)3f"(xi)+(0h) i. f(xi) 27 h = (f(xi) + 3h(f(xi+1) - F(xi)) + 9h² (f(xi) - 2f(xi+1)+f(xi+2)) F(x:) 27h = f(x+3) - f(x:) -3 (f(x+1)-f(x:)) = = (f(x:)-2f(x:+1) + f(x:+2)) F(x:)27/3 = f(x:+3) - f(x:)-3f(x+1) +3f(x:) - 9f(x:+1) - 9f(x:+1) - 9f(x:+2) #136M F(x:+3) - 3f(x:+2)+3f(x:+1)-f(x:) pundmute f(x: +3) -3f(x+2)+3f(x+1)-f(x)