$x_i = 0,5 \quad h = 0,1$

$f(x) = 0,25x^4 - 0,35x^2 + 2,5$

$f'(x) = x^3 - 0,7x$

$f''(x) = 3x^2 - 0,7$

$x_i = 0,5 \quad f(0,5) = 2,428125$

$x_{i+1} = 0,6 \quad f'(0,5) = -0,225$

$x_{i-1} = 0,4 \quad f''(0,5) = 0,05$

$x_{i-2} = 0,3$

$f(0,6) = 2,4064 \quad f(0,3) = 2,470525$

$f(0,4) = 2,4504$

centrada

$$f'(0,5) \cong \frac{2,4064 - 2,4504}{2(0,1)}$$

$$f'(0,5) \cong -0,22$$

$$f''(0,5) \cong \frac{2,4064 - 2(2,428125) + 2,4504}{0,01}$$

$$f''(0,5) \cong 0,055$$

Atras

$$f'(0,5) \cong \frac{(2,428125) - 2,4504}{0,1}$$

$$f'(0,5) \cong -0,22275$$

$$f''(0,5) \cong \frac{(2,428125) - 2(2,4504) + 2,470525}{0,01}$$

$$f''(0,5) \cong -0,2755$$

$x = 0,5 \quad h = 0,05$

$f(x) = 0,25x^4 - 0,35x^2 + 2,5$

$f'(x) = x^3 - 0,7x$

$f''(x) = 3x^2 - 0,7$

$x_i = 0,5 \qquad f(0,5) = 2,428125$

$x_{i+1} = 0,55 \qquad f'(0,5) = -0,225$

$x_{i-1} = 0,45 \qquad f''(0,5) = 0,05$

$f(0,55) = 2,41700$

$f(0,45) = 2,43937$

Centrada

$$f'(0,5) \cong \frac{2,43937 - 2,41700}{2(0,05)}$$

$f'(0,5) = 0,2237$

$$f''(0,5) \cong \frac{2,41700 - 2(2,428125) + 2,43937}{(0,05)^2}$$

$f''(0,5) \cong 0,04799$