

$$X = 1,3 \quad h = 0,002$$

$$X_{i-2} = 1,296$$

$$X_i = 1,3$$

$$f(x) = 0,3x^4 - 0,4x^3 + 0,9x^2 - 3x + 3$$

$$X_{i+1} = 1,302$$

$$f'(x) = 1,2x^3 - 1,2x^2 + 1,8x - 3$$

$$X_{i-1} = 1,298$$

$$f''(x) = 3,6x^2 - 2,4x + 1,8$$

$$X_{i+2} = 1,304$$

Primera hacia adelante

$$f(x_i) = (1,302) -$$

$$f(x_i) = \frac{0,598 - 0,59903}{0,002} = -0,515$$

Primera hacia atras

$$f'(x_i) = \frac{0,59903 - 0,599}{0,002} = 0,015$$

Primera centrada

$$f'(x_i) = \frac{0,598 - 0,599}{2(0,002)} = -0,25$$

Segunda hacia adelante

$$F''(x_i) = \frac{0,59886 - 2(0,598) + 0,59903}{(0,002)^2}$$

$$F''(x_i) = 472,5$$

Segunda hacia atras

$$F''(x_i) = \frac{0,59903 - 2(0,598) + 0,59827}{(0,002)^2}$$

$$F''(x_i) = 575$$

Segunda centrada

$$F''(x_i) = \frac{0,598 - 2(0,59903) + 0,598}{(0,002)^2}$$

$$F''(x_i) = -515$$