

interpolador para los siguientes datos de una función f :

$$f(5) = 5, f'(1) = 10, f''(1) = 3, f(4) = 1 \text{ y } f'(4) = -2$$

$f[x_i, x_{i+1}, x_{i+2}]$	$f[x_i, x_{i+1}, x_{i+2}, x_{i+3}]$	$f[x_i, x_{i+1}, x_{i+2}, x_{i+3}, x_{i+4}]$	$f[x_i, x_{i+1}, x_{i+2}, x_{i+3}, x_{i+4}, x_{i+5}]$	$f[x_i, x_{i+1}, x_{i+2}, x_{i+3}, x_{i+4}, x_{i+5}, x_{i+6}]$
$\frac{5 - (-7)}{1 - 0} = 12$				
	$\frac{5 - 12}{1 - 0} = -7$			
$f[1, 1, 1] = \frac{f''(1)}{2!} = 5$		$\frac{\frac{1}{2} - (-7)}{1 - 0} = \frac{15}{2}$		
	$f[1, 1, 1, 1] = \frac{f'''(1)}{3!} = \frac{3}{3!} = \frac{1}{2}$		$\frac{\left(-\frac{47}{54}\right) - \frac{15}{2}}{4 - 0} = \frac{-113}{54}$	
$f[1, 1, 1] = \frac{f''(1)}{2!} = 5$		$\frac{\left(-\frac{19}{9}\right) - \frac{1}{2}}{4 - 1} = -\frac{47}{54}$		$\frac{\frac{87}{162} - \left(-\frac{113}{54}\right)}{4 - 0} = \frac{71}{108}$
	$\frac{\left(-\frac{4}{3}\right) - 5}{4 - 1} = \frac{-19}{9}$		$\frac{\frac{20}{27} - \left(-\frac{47}{54}\right)}{4 - 1} = \frac{87}{162}$	
$\frac{1 - 5}{4 - 1} = \frac{-4}{3}$		$\frac{\frac{1}{9} - \left(-\frac{19}{9}\right)}{4 - 1} = \frac{20}{27}$		
	$\frac{-1 - \left(-\frac{4}{3}\right)}{4 - 1} = \frac{1}{9}$			
$\frac{-2 - 1}{4 - 1} = -1$				

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$$+f[0,1,1](x-0)(x-1)+f[0,1,1,1](x-0)(x-1)^2+f[0,1,1,1,1](x-0)(x-1)^3+f[0,1,1,1,4](x-0)(x-1)^4+f[0,1,1,1,4,4](x-0)(x-1)^4(x-4) \\) - 7x(x-1)^2 + \frac{15}{2}x(x-1)^3 - \frac{113}{54}x(x-1)^4 + \frac{71}{108}x(x-1)^4(x-4) =$$

$$\frac{76x^4 - 6530x^3 + 7349x^2 - 4128x + 540}{108} = \frac{71}{108}x^6 - \frac{397}{54}x^5 + \frac{91}{3}x^4 - \frac{3265}{54}x^3 + \frac{7349}{108}x^2 - \frac{344}{9}x + \frac{185}{27}$$



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