Nombre: Miguel Santiago Rueda $f(2,5)$

$$f_n(x) = \left(\frac{x-3}{2-3}\right)0,2 + \left(\frac{x-2}{3-2}\right)4,2$$

$$f_n(x) = -2(x-3) + 4,2(x-2)$$
$$f_n(x) = -2x-6+4,2x-6,4$$
$$f_1 = 2,2x - 2,4 = 0$$
$$f(2,5) = (2,2)(2,5) - 2,4$$

$f(2,5) = 5,5 - 2,4 = 3,1$

$$f_2(x) = \frac{(x-2)(x-3)}{(1-2)(1-3)}(0,2) + \frac{(x-1)(x-3)}{(2-1)(2-3)}(2)$$

$$+ \frac{(x-1)(x-2)}{(3-1)(3-2)}(4,2)$$

$$f_2(x) = \frac{x^2-3x-2x+6}{2}(0,2) + \frac{x^2-3x-x+3}{-1}(2)$$

$$+ \frac{x^2-2x-x+2}{2}(4,2)$$

$$f_2(x) = \frac{x^2-5x+6}{}(0,2) + x^2-4x+3(-2) + x^2-3x+2(2,1)$$

$$f_2(2,5) = -0,05 + 1,5 + 1,575 = \underline{3,125}$$

$$f_3(2,5) = \frac{(2,5-1)(2,5-2)(2,5-3)}{(0-1)(0-2)(0-3)}1 = \underline{0,0625}$$

$$+ \frac{(2,5-0)(2,5-1)(2,5-3)}{(1-0)(1-2)(1-3)}(0,2) = \underline{-0,0625}$$

✓

$$+ \frac{(2{,}5-0)(2{,}5-1)(2{,}5-3)}{(3-0)(3-1)(3-2)}(2) = -0{,}104$$

$$+ \frac{(2{,}5-0)(2{,}5-1)(2{,}5-2)}{(3-0)(3-1)(3-2)}(4{,}2) = 1{,}3125$$

$$= 1{,}2085$$