

X	f(X)
0	4
2	2,5
4	6
6	10,2
8	11,8

 $f(5)$
 $x_0 = 4$
 $x_1 = 6$
 $x_2 = 8$

$$f_1(x) = \frac{x-6}{4-6} 6 + \frac{x-4}{6-4} 10,2$$

$$f_1(x) = -3x + 18 + 5,1x - 20,4 = 2,1x - 2,4$$

$$f_1(x) = 2,1x - 2,4$$

$$f_1(5) = 8,1$$

$$f_2(5) = x_0 = 2 \quad x_1 = 4 \quad x_2 = 6$$

$$f_2(5) = \frac{(5-4)(5-6)}{(2-4)(2-6)} 2,5 + \frac{(5-2)(5-6)}{(4-2)(4-6)} 6 + \dots +$$

$$\dots + \frac{(5-2)(5-4)}{(6-2)(6-4)} 10,2$$

$$f_2(5) = \frac{-1}{-8} 2,5 + \frac{-3}{-4} 6 + \frac{3}{8} 10,2$$

$$f_2(5) = -0,3125 + 4,5 + 3,825$$

$$f_2(5) = 8,0125$$

$$f_3(5) = x_0 = 0 \quad x_1 = 2 \quad x_2 = 4 \quad x_3 = 6$$

$$f_3(5) = \frac{(5-2)(5-4)(5-6)}{(0-2)(0-4)(0-6)} 4 + \frac{(5-0)(5-4)(5-6)}{(2-0)(2-4)(2-6)} 2,5$$

$$+ \frac{(5-0)(5-2)(5-6)}{(4-0)(4-2)(4-6)} 6 + \frac{(5-0)(5-2)(5-4)}{(6-0)(6-2)(6-4)} 10,2 =$$

$$f_3(5) = \frac{1}{16} 4 + \left(-\frac{5}{16}\right) 2,5 + \frac{15}{16} 6 + \frac{5}{16} 10,2$$

$$f_3(5) = 0,25 - 0,78125 + 5,625 + 3,1875$$

$$f_3(5) = 8,28125$$