

## Taller 22

- Grado 1 (2, 3)

$$f_1(x) = \frac{x-3}{2-3} \times 1 + \frac{x-2}{3-2} \times 1 = \frac{x-3}{-1} + \frac{2,1x-4,2}{1}$$

$$f_1(x) = -1,1x - 1,2 \rightarrow f_1(2,5) = 1,1(2,5) - 1,2 = 1,55$$

- Grado 2

$$f_2(x) = \frac{(x-3)(x-4)}{(2-3)(2-4)} \times 1 + \frac{(x-2)(x-4)}{(3-2)(3-4)} \times 2,1 + \frac{(x-2)(x-3)}{(4-2)(4-3)} \times 2,4$$

$$f_2(x) = -0,4x^2 + 3,1x - 3,6 \rightarrow f_2(2,5) = 1,65$$

- Grado 3

$$f_3(x) = \frac{(x-2)(x-3)(x-4)}{(1-2)(1-3)(1-4)} \times 0,1 + \frac{(x-1)(x-3)(x-4)}{(2-1)(2-3)(2-4)} \times 1$$

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

$$f_3(x) = -0,16x^3 + 1,1x^2 - 1,23x + 0,4$$

$$f_3(2,5) \approx 1,6$$