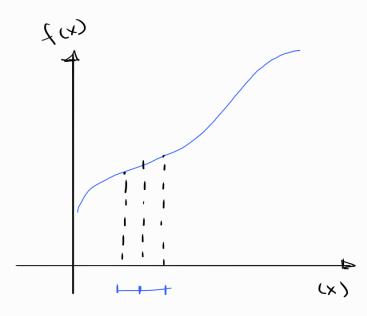
Primer distancial
$$f'(x) = \frac{f(x_{i+1}) - f(x_i)}{h} + \frac{O(h^2)}{h}$$
having adulante

Primer diferencial havia dtras

$$f'(x) = \frac{f(xi) - f(xi-i)}{h} + 0 (h)$$



Dado los purtos x = 0,0.5,1 pura los que setiene

Calale las aproximaciones

χ

Adelenk Atras In medio

0.5

Errores

-0.3615 -0.5375 -0.0875

$$f'(x) = \frac{f(x_{i+1}) - f(x_{i+1})}{f(0.5) - f(0)} = \frac{0.925 - 1.2}{0.5} = -0.55$$

$$f(x) = \frac{f(1) - f(0.5)}{0.5} = \frac{0.2 - 0.925}{0.5} = -1.45$$

$$f'(x) = \frac{f(1) - f(0)}{1} = \frac{0.2 - 1.2}{1} = -1$$