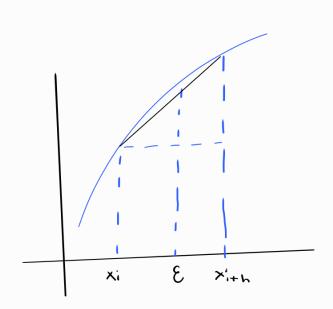
Teorema del purto medio

0-4



$$f'(x) = \frac{f(x(+1) + f(x))}{h}$$

$$V(t_{i+1}) = V(t_{i}) + V(t_{i+1})(t_{i+1}-t_{i})$$

$$+ V''(t_{i})(t_{i+1}-t_{i})^{2} + ... + R_{n}$$

$$= V(t_{i+1}) = V(t_{i}) + V(t_{i}')(t_{i+1}-t_{i})$$

$$+ R_{n}$$

$$= V(t_{i+1}) = V(t_{i}') + V(t_{i}')(t_{i+1}-t_{i})$$

$$+ R_{n}$$

$$= V''(E)(t_{i+1}-t_{i})^{2}$$

$$= V''(E)(t_{i+1}-t_{i})^{2}$$

AP Apriox. de la ec. 2

$$V'(ti) = \frac{V(ti+1) - U(ti)}{ti+1 - ti} \approx V'(ti)$$
 $\frac{-R_i}{ti+1 - ti}$

$$V''(t_{i}) = \frac{-V'(t_{i})}{(t_{i+1}-t_{i})}$$

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$$V''(t_{i}) = \frac{V'(t_{i})}{(t_{$$

Sea
$$f(x) = \chi^n$$

donde a prede ser $n = 1, 2, 3, 4...$ m et rango
 $x = 1-2$

$$n = 2$$

$$n = 2$$

La aproximaçión usando la serie de taylor de primer orden

$$f(x_i+1) \cong f(x_i') + f'(x_i') h$$

$$R_{i} = \frac{f''(x_{i}) h^{2}}{2!} - \frac{f^{(3)}(x_{i}) h^{3}}{3!}$$

$$f(x_{1}^{2}+1)=x_{1}^{2}+nx_{1}$$

$$\int^{V} (x_{111})^{2} = \int^{V} (z)^{2} = 2^{4} = 16$$

$$\int^{V} (x_{111})^{2} = 1 + 4 = 5$$

$$\int^{V} (x_{111})^{2} = 1 + 4 = 5$$

$$\int^{V} (x_{111})^{2} = 6 + \frac{4(3)(2)(1)(3)}{3!} = 4$$

L	V	t xiti	t (x!+')	R
0.5	4	5.0615	3	2
0.25		2.4414	2	6.4375
0.1		1. 4641	1.4	0.064
0.01		0.0406	1.04	0,000604