$$\frac{dV}{dt} = mg = cV$$

$$\int \frac{dV}{dt} = \frac{dt}{dt} \rightarrow -\ln \frac{mg}{dt} - cV = 0$$

$$V(t) = \frac{mg}{c} \left(1 - e^{-\frac{c}{mt}t}\right)$$

$$\frac{dV}{dt} = mg = cV$$

$$\frac{dV}{dt} = mg = cV$$

$$\frac{dV}{dt} = \frac{\Delta V}{\Delta t}$$

$$\frac{dV}{dt} = \frac{mg}{c} - cV$$

$$\frac{dV}{dt} = \frac{\Delta V}{\Delta t}$$

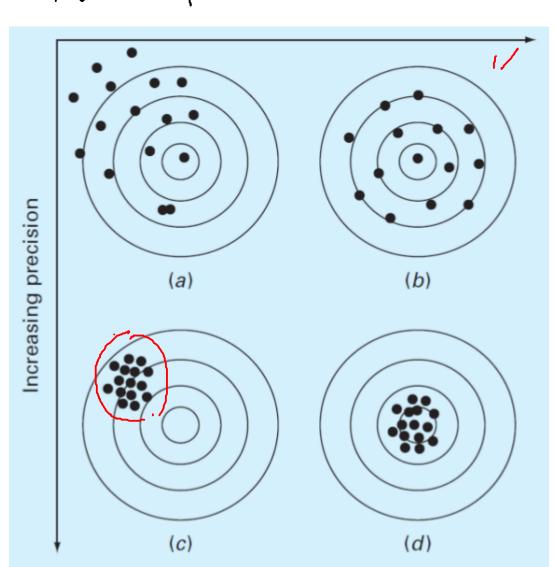
$$\frac{dV}{dt} = \frac$$

Errores

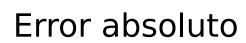
Redondeo

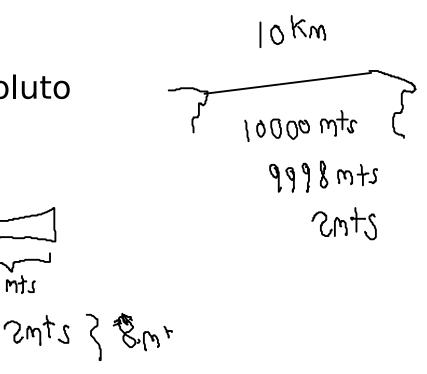
$$A = 0,000.453896$$
 $7,53 \times 10^{-4}$

Calculo = = 1325 442, 905 Calculo 3 cifia = = 1327021, 248



Calculo de errores





Error Relativo

$$\frac{9998-10000}{9998} \times 100 = 0,02\%$$

$$8-10\times100 = 25\%$$

Error de aproximación

Error de truncamiento

$$F(9) = \sum_{n=0}^{\infty} \frac{f^{n}(a)}{n!} (x - a)^{n}$$

$$S_{\text{Prip}} d_{\text{Prip}} |_{\text{O}}$$

$$F(9) = \frac{F(9)}{0!} (x - 9)^{9} + \frac{F(9)}{1!} (x - 9)^{1} + \dots + \frac{F(9)}{0!} (x - 9)^{9}$$

$$F(9) = \frac{F(9)}{0!} (x - 9)^{9} + \frac{F(9)}{1!} (x - 9)^{1} + \dots + \frac{F(9)}{0!} (x - 9)^{1}$$

$$F(9) = \frac{F(9)}{0!} (x - 9)^{9} + \frac{F(9)}{1!} (x - 9)^{1} + \dots + \frac{F(9)}{0!} (x - 9)^{1}$$

$$\sum_{n=0}^{\infty} \frac{f^n(a)}{n!} (x-a)^n$$

Serie de Macclaurin

$$\begin{array}{ll}
Q = 0 & \sum_{i=0}^{\infty} F_{i}(0) \\
F(x) = 18x^{4} + 24x^{3} - 9x^{2} + 4x + 1. \\
F'(x) = 60x^{3} + 72x^{2} - 18x + 4 \\
F^{3}(x) = 180x^{2} + 144x - 18
\end{array}$$

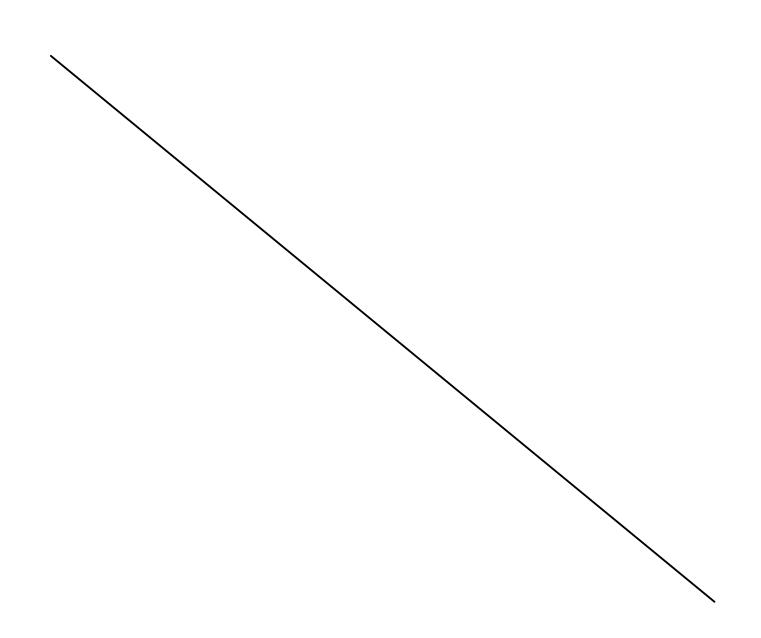
$$\begin{array}{ll}
F^{4}(x) = 360x + 144 \\
F^{5}(x) = 360
\end{array}$$

n	F(14)	Er	E9
0	-190	100%	~ ~ ~
1	-86	100%	-86+100 -86 16,27%
2	306	99,98%	128,1%
3	7926-	100,43%	10,3,80%
4	222570	37,87%	103,56%
5	836045	0%	87, 87%
6	1836045	0%	6%

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Errores del aritmeticos del computador

int



int o integer

$$\frac{32}{0 - 0 \rightarrow 0}$$

Numeros reales

X= 1,0011---

100

$$\sum_{n=0}^{\infty} \frac{f^{n}(a)}{n!} (x-a)^{n}$$

$$\sum_{n$$

$$V_{6}: 34$$

$$V_{6}: 34$$

$$V_{6}: 34$$

$$V_{7}: 34$$

$$V_{7}: 34$$

$$V_{7}: 35$$

$$V_{7}: 34$$

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$$V_{7}: 34$$

$$V_{7}: 35$$

$$V_{7$$

 $f(x) = \sum_{a} \frac{1}{b} \frac{1}{(a)} \frac{(x-a)}{(x-a)} = \frac{9!}{b} \frac{1!}{(a)} \frac{1!}{$

 $R(n) = \frac{(E) h}{(n+1)!}$ $(h)^{n+1}$

Fr< 3% & 6< 0,03

n = S

0.56=0,015665

+ f (0)h 1+1.