Local Error-- Numerical Analysis (computer science)

Just show how the local error is 28% (show all work... the part marked in red box).

Local error I believe you would need to use local truncation error (Taylor Series)

Example 1: Euler's Method

Solve numerically: $\frac{dy}{dx} = -2x^3 + 12x^2 - 20x + 8.5$

From x=0 to x=4 with step size h=0.5

initial condition: (x=0; y=1)

Exact Solution: $y = -0.5x^4 + 4x^3 - 10x^2 + 8.5x + 1$

Numerical

Solution: $y_{i+1} = y_i + f(x_i, y_i) \Delta x$

y(0.5) = y(0)+f(0, 1)0.5 = 1+8.5*0.5 = 5.25(true solution at x=0.5 is y(0.5) = 3.22 and $\epsilon_t = 63\%$)

$$y(1) = y(0.5)+f(0.5, 5.25)0.5$$

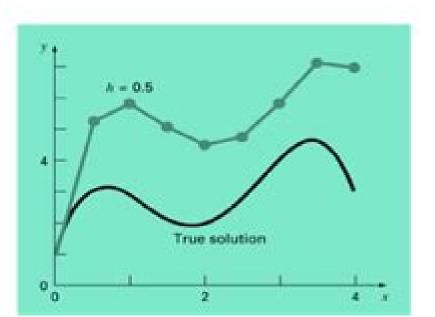
= 5.25+[-2(0.5)³+12(0.5)²-20(0.5)+8.5]*0.5
= 5.25+0.625 = 5.875

(true solution at x=1 is y(1) = 3 and $\varepsilon_t = 96\%$)

$$y(1.5) = y(1)+f(1, 5.875)0.5 = 5.125$$

.....

x	Yeuler	Ytrue	total error (%)	local error (%)
0	1	1	NA	NA
0.5	5.25	3.218	63.1	63.1
1	5.875	3	95.8	28
1.5	5.125	2.218	131	1.41
2	4.5	2	125	20.5



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