

Simpson's Rule



1. (a) Estimate $\int_1^3 \frac{1}{x} dx$ using Simpson's rule with 4 strips, giving your answer to 4 d.p.

Solution:

$$A \approx \frac{h}{3} (y_0 + 4y_1 + 2y_2 + 4y_3 + y_4)$$

$$n = 4, \quad h = \frac{3-1}{4} = 0.5$$

x	1	1.5	2	2.5	3
y	1	0.66667	0.5	0.4	0.33333

$$\Rightarrow \int_1^3 \frac{1}{x} dx \approx 1.1000 \quad (4 \text{ d.p.})$$

Hsc Mathematics Volume Using Simpsons Rule

Michael Rajnik



Hsc Mathematics Volume Using Simpsons Rule:

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