

SNS COLLEGE OF ENGINEERING Coimbatore - 641 107



TOPIC : 3.6 Numerical single integration by Simpson's 1/3 rule

Mundial Intropation by mopercidal Simple & and Simple the Rule "L'apresal anudantita formula fai aqual " Depermental Anda 1 100 da - 1 [14 + 4) + 201,+30+ - + 46 . J Storman 1 A. Ja Paule Janda - A Conth 3+ # 190+20 - 3+418-57

Paradien. mile contante (1/2 LADY TRADE THAT WERE a B Jabacha dala piece then - 1+2 18th of the interval - 1 3 - total - - - 05 -0-75 --- 50 -0.85 0 C 25 0 50 0 75 1 - 10 0.64 0.8 0.44 1 0.94 401 0-5 Hos do = # [(2+50)+ =15,+50 + 50+54 + 50+54 + 57 Hos do = # [(0-540-2) + 210-64+08+0 91+1+0 +0+0+ 0.105 (15 D) 1 560



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at dra by every istraption idal male , Planta State 10 and surpense symber we deterting

6 Schubber Sale Heat , trail-6 -- H = 2-2-1) The truble do ø 1.0 10 - 11 -3 236 -14 400 91 14 - 0 Trapezacidal dulle: $\int \frac{T}{2} \frac{1}{2} \int C h(1+1) + 2 \int f f(1+n+1+1)$ 3.4dx + (0-5) 2.259 = 115 $\int_{-\pi}^{\pi} 4dx = \frac{1}{\pi} \left[(4\pi\pi) + 3\pi\pi (1+5) + 5(1+5+5+5) \right]$ = 0 - 388(375) $\int_{-\pi}^{\pi} 4dx = 77.962$