* **What do you mean by Numerical Integration? Discuss with example.**
* **Drive the General Quadrature Formula for Equidistant Ordinates.**
* **Drive the formula for**

**The Trapezoidal Rule: **

**The Simpson’s One third rule: **

**The Simpson’s Three-eights Rule: **

**Example: Calculate the value of the integral:  by**

* **Trapezoidal rule**
* **Simpson’s 1/3 rule**
* **Simpson’s 3/8 rule**

**Solution:**

Taking divide the whole range of integration into six equal parts. The values of the for each point of sub-division are given below:

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By Trapezoidal rule, We have

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