

Spring 2021 - Interpolation - Chapter 5 - Part 2

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1. Given n data points of y vs x for conducting quadratic spline interpolation, the x -data needs to be

- ☐ equally spaced
- ☐ in ascending or descending order
- ☐ integers
- ☐ positive

2. In quadratic spline interpolation (check all that apply),

- ☐ the first derivatives of the splines are continuous at the interior data points
- ☐ the second derivatives of the splines are continuous at the interior data points
- ☐ the connecting splines have same co-ordinate value at each of the common interior data points
- ☐ the connecting splines have same value of the first derivative at each of the common interior data points

3. To find the length of a curve $y=3\sin(2x)+5\ln(7x)$ from $x=2$ to $x=5$, you would do the following

- ☐ Integrate y with respect to x from $x=2$ to $x=5$
- ☐ Integrate dy/dx with respect to x from $x=2$ to $x=5$
- ☐ Integrate $1+(dy/dx)^2$ with respect to x from $x=2$ to $x=5$
- ☐ Integrate square root of $(1+(dy/dx)^2)$ with respect to x from $x=2$ to $x=5$

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