Chapter 7 - Numerical Integration - Part Two - Spring 2021

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1. For integrating any third order polynomial, the two-point Gauss quadrature rule will give you the same results as

   - ◯ 1-segment trapezoidal rule
   - ◯ 2-segment trapezoidal rule
   - ◯ 3-segment trapezoidal rule
   - ◯ None of the above

2. In Gauss quadrature rule, the number of function evaluations for the 8-point rule is

   - ◯ 8
   - ◯ 9
   - ◯ 17

3. What is the highest order of polynomial that can be integrated exactly by a 5-point Gauss quadrature rule?

   The value must be a number

4. A 2-point Gauss quad rule will give the exact definite integral value of the following integrands. Choose all that apply.

- [ ] $6x^4$
- [ ] $2x$
- [ ] $2x + 3x^2$
- [ ] $2 + 3x + 3x^2 + 5x^3 + 6x^4$
- [ ] $2 + 3x + 3x^2 + 5x^3$
- [ ] 2
- [ ] $5x^3$

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