Pop Quiz # 3

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3/5 points (ungraded)

In the following, write your BRACU ID# and section number first. After you submit the quiz, it will show that the ID# and Section numbers are wrong. Please ignore this messages. You score will based on the MCQs only.

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Your BracU ID #

19101239 ✖

Your Theory class section #:

- [ ] 1
- [ ] 2

- [ ] 3
- [ ] 4
- [ ] 5
- [x] 6

✖

Below are the MCQs:

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Q#1: Consider two polynomials $p_3(x)$ and $q_5(x)$. The degree of the polynomial $p_3(x) - q_5(x)$ will be

- ○ 8
- ○ 3
- ◉ 5
- ○ 2

✔

Q#2: Which of the following is not an elemnt of the Newton basis if the polynomial is of degree five?

- ◉ $\prod_{j=0}^{j=5} (x - x_j)$

- $\prod_{j=0}^{j=2}(x - x_j)$
- $\prod_{j=0}^{j=4}(x - x_j)$
- $\prod_{j=0}^{j=3}(x - x_j)$ ✔

Q#3: Which of the following statements is/are true for a degree *n* polynomial?

- The number of elements in Newton's basis is less than that of natural basis.
- The number of elements in Newton's basis is always the same as in Natural and Lagrange basis. ✔
- The number of elements in Newton's basis is higher than that of Lagange basis.
- None of the above.

✔

Submit You have used 1 of 2 attempts

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