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Graded Quiz # 7

Graded Quiz # 7

5/9 points (graded)

Please write below your BracU ID and Sectoion number. After submission these may shows WRONG answers. Please IGNORE these messeges. Your score will be based on the questions belwo these two inputs:

=====

Your BracU ID#:

19101239 ✖

Your theory class section#

- [ ] 1
- [ ] 2

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- [ ] 5
- [x] 6

✖

MCQs start from below. Answer the questions correctly:

=====

Q#1: If $x_k = 2$, $x_{k+1} = 3.5$ and $x_{k+2} = 4$, find out the value of $\hat{x}_{k+2}$ using Aitken Acceleration formula.

- ○ 4.30.
- ◉ 4.25.
- ○ 5.25.
- ○ 4.52.

✔

Q#2: Which of the following statement is not correct?

- ◉ In some point if f^\prime\left(x\right) becomes zero, the procedure doesn't enter in an infinite loop.
- ○ Newton's Method has a super linear convergence rate.
- ○ Secant method is efficient than Newton's Method

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Q#3: For $f(x) = x^2 - 2x + 15$, at which point the graph will turn?

- ◯ – 3.
- ◉ 1.
- ◯ 0.
- ◯ 5.

✔

The Questions-(4-6) depends on the function: $f(x) = 2x^2 + 16x - 18$.

Q#4: Which point you need to avoid in order to stop newton's method from entering into an infinite loop for teh function $f(x)$?

- ◉ – 4.
- ◯ – 9.
- ◯ 1.
- ◯ 4.

✔

Q#5: If $x_{\perp} = 1$ and $x_{\nu} = .5$, what will be the value of $x_{\nu+1}$

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- 0.025.
- -4.
- 0.075.

✖

Q#6: What will be the error for x_{k+1} found in the previous question?

- 0.075.
- 0.
- 4.
- 0.025.

✖

Q#7: What is the condition for a method to be superlinear?

- $\lambda = 0$.
- $\lambda < 0$.
- $0 < \lambda < 1$.

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Submit You have used 1 of 1 attempt

Question # 9: Find the root of the function $f(x) = x^2 - 5x + 6$ up to three iterations according to the following:

- If your student ID number is an odd number, use Newton's method.
- If your student ID number is an even number, use Secant method.

GRADED QUIZ # 8 SUBMISSION

Status

You have completed this assignment. Your final grade will be available when the assessments of your response are complete.

Your Response due Sep 2, 2021 21:00 +06 (in 0 minutes) ✔ COMPLETE

Staff Grade NOT AVAILABLE

Waiting for a Staff Grade

Check back later to see if a course staff member has assessed your response. You will receive your grade after the assessment is complete.

Your Grade: Waiting for Assessments

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