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Pop Quiz # 8

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3/5 points (graded)

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.

=====

Your BracU ID #

19101239



Your Theory class section #:

1

2



☐☐ 3☐ 4☐ 5☒ 6

✖

Below are the MCQs:

=====

Q#1: It is given that $x = (3.0, 3.1, 3.2, 3.3)$ and the corresponding value of $f(x) = (2.5, 2.8, 3.2, 3.4)$. The value of first derivative of $f(x)$ for $x = 3.1$ using Forward Difference will be

☐ 1☐ 2☐ 3☒ 4

✔

Q#2: It is given $x = (3.0, 3.1, 3.2, 3.3)$ and the corresponding value of $f(x) = (2.5, 2.8, 3.2, 3.4)$. The value of first derivative of $f(x)$ for $x = 3.1$ using Central Difference will be

☐ 4

☒ 3.5☐ 1☐ 2

Q#3: The truncation error of the forward difference method varies according to which of the following rules?

☐ Error is directly proportional to h^2 ☒ Error is directly proportional to $-h$ ☐ Error is directly proportional to h ☐ Error is inversely proportional to $-h$ [Submit](#)

You have used 1 of 3 attempts

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