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## Pop Quiz # 9

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4/6 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: In theory, smaller step size  $h$  produces smaller errors. However, in the computer, smaller  $h$  does not give us the best answer. Why?

☐ Because of blunders.☒ Because of rounding error.☐ Because of truncation error.☐ None of the above.

Q#2: What is the relation between step size  $h$  and rounding error in the central divided difference method?

☐ Rounding error is proportional to  $h$  squared.☒ Rounding error is inversely proportional to  $h$ .

☐ Rounding error is proportional to  $h$ .

☐ Rounding error is inversely proportional to  $h$  squared.



Q#3: What is the relation between step size  $h$  and truncation error in central divided difference method?

☐ Truncation error is proportional to  $h$ .

☐ Truncation error is inversely proportional to  $h$ .

☐ Truncation error is inversely proportional to  $h$  squared.

☒ Truncation error is proportional to  $h$  squared.



Q#4: What is Richardson extrapolation used for?

☐ To decrease the error.

☐ To increase the rate of convergence.

☐ To increase the accuracy.

☒ All of the above.



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You have used 1 of 2 attempts



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