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Graded Quiz # 3

Graded Quiz # 3

6 points possible (graded, results hidden)

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#:

Your theory class section#



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MCQs start from below. Answer the questions correctly:

=====

Q#1: Suppose you have 6.25×10^{18} no. of electrons. You want to store this value or data in machine which has a maximum and minimum storage range of 529.65×10^{17} and 1.6×10^{-19} respectively. When giving input to store the data, the machine will

☐ Stores the number☐ Overflow☐ Underflow☐ None of the above

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the minimum and the maximum normalized values?

☐ $\frac{1}{4}$ and 7.75☐ $\frac{1}{4}$ and 15.25☐ -15.25 and 15.25☐ $\frac{1}{8}$ and 7.5


Q#3: In a floating point system, the spacing of the sets on a real line depends on what?

☐ the number of bits in the mantissa.☐ the convention used.☐ maximum and minimum values.☐ the values of e .

Q#4: The Floating point representation is preferred over fixed point representation for machines because

☐ It provides a unique representation.

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You have used 0 of 1 attempt

Q#5: Problem Solving

A car traveling along a straight road is clocked at a number of locations. The data from the observations are given in the following table:

Time, t (sec)	3	5
Distance, x (m)	225	383
Velocity, v (m/s)	77	80

1. [2 marks] Find the Lagrange basis using the following data.
 2. [2 marks] Using your previous calculations, calculate the necessary Hermite Basis.
 3. [2 marks] Using part a and b, interpolate a Hermite Polynomial for the position of the car at any given time and predict the position of the car at $t=4s$.
- Upload your detail solution of Question-5 below in a single .pdf or .jpg file according to the instructions given below:

SUBMISSION: GRADED QUIZ # 4 PROBLEM SOLVING


Assignment submissions will close soon. To receive a grade, first provide a response to the prompt, then complete the steps below the **Your Response** field.



Your Response due Jul 15, 2021 21:00 +06 (in 1 hour, 3 minutes) IN PROGRESS



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The prompt for this section

Read the following instructions to submit your solution of the Problem Part of Graded Quiz #3:


- Prepare a title page indicating (i) your name, (ii) BracU ID #, Grade Quiz # and (iv) your theory section #.
- Rename your solution file in the format: ID_LastName_Section.pdf or ID_LastName_Section.jpg (As for example 12345678_Khan_4.pdf).
- Prepare a single .pdf or a single.jpg file containing the title page and the solution pages, arranged on order. and when finished upload your work/solution below, and write the file name in the Description tab and then click the Upload File button.
- Finally click 'Submit your Response and Move to the next step' to complete the submission.
- Click 'End My Exam' at the top.
- If uploading fails, take a screen shot of your attempted uploading try. Email your file to our section teacher including the screen shot before the time runs out. No submission will be accepted without the screen shot and the email must be sent before the deadline.

 No file chosen

You may continue to work on your response until you submit it.



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▸ Your Grade: Not Started

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