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Assignment # 4

Question : Construct an appropriate polynomial for the following data using Hermite basis by following the question below step by step:

X	f(x)	f'(x)
-1	0	1
0	1	0
1	0	1

1. [4 marks] Find the Lagrange basis from the given data above.

2. [4 marks] Using the values in part i, compute the required Hermite basis.

3. [1 mark] Finally find the expression of the interpolating Hermite polynomial.

4. [1 mark] Use the expression to determine the approximate value at x= 0.5.

 Follow the Submission instruction below:

- Solve all the problems above in orderly fashion.

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- Prepare a title page including: Your Name, Your BracU ID#, Theory Section # and the Assignemnt #.

- Preparea single .pdf or .jpg file containing the tile page and the solution pages.

- To submit your assignment solution, visit the Submission Link (Click here). This will take you to a Google Form link.

- Fill up the Google Form link with correct information and upload the file there. You are done.

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