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sandipan_dey >

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★ Course / 3 Finger Exercises (FE) / 3.1 Finger Exercises 1 (FE1)





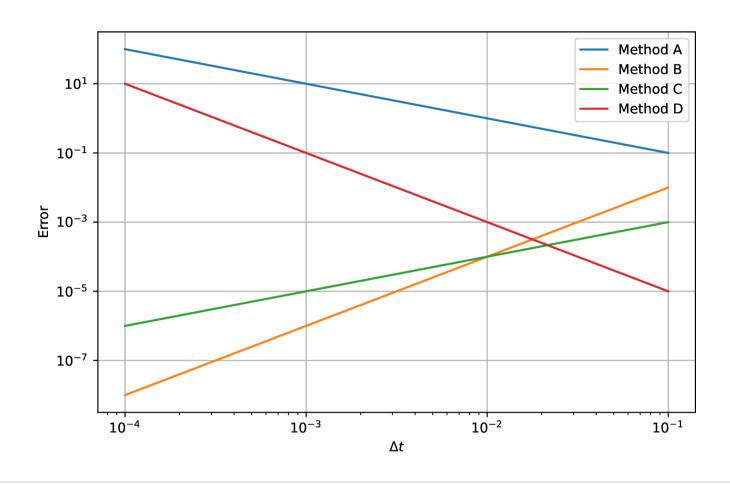
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Finger Exercises 1 due Aug 3, 2023 05:00 IST Completed

MO2.6

The following plot shows the maximum error e_{\max} as a function of timestep Δt for four different methods applied to the same Initial Value Problem.



Problem: Method A

1/1 point (graded)

Select all of the statements that are true with respect to Method A?

Method A is convergent
$oxedsymbol{oxedsymbol{oxedsymbol{oxedsymbol{eta}}}}$ Method A has order of accuracy $p=1$
$oxedsymbol{oxedsymbol{oxedsymbol{eta}}}$ Method A has order of accuracy $oldsymbol{p}=2$
$oxedsymbol{ox{oxed}}}}}}}$ Method A has order of accuracy $oldsymbol{olevar}=4$
✓ None of the above are true
✓

Submit

• Answers are displayed within the problem

Problem: Method B

1/1 point (graded)

Select all of the statements that are true with respect to Method B?

Method B i	s convergent
Method B h	has order of accuracy $p=1$
✓ Method B h	has order of accuracy $oldsymbol{p}=2$
Method B r	has order of accuracy $oldsymbol{p}=4$
None of the	e above are true
✓	
Submit	
•	
• Answers are	e displayed within the problem
Problem: Me	ethod C
1/1 point (graded)	statements that are true with respect to Mothed C2
Select all of the s	statements that are true with respect to Method C?
✓ Method C i	is convergent
Method C I	has order of accuracy $p=1$
Method C I	has order of accuracy $oldsymbol{p}=2$
Method C I	has order of accuracy $p=4$
None of the	e above are true
~	
Submit	
1 Answers are	e displayed within the problem
Problem: Me	ythod D
7/1 point (graded)	HIOG D
-	statements that are true with respect to Method D?
Method D i	is convergent
Method D I	has order of accuracy $p=1$
Method D I	has order of accuracy $p=2$
Method D I	has order of accuracy $p=4$

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