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Pop Quiz #4							
Pop Quiz # 4							
3/5 points (ungraded)							
In the following, write your BRACU ID# and section number							
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score will based on the MCQs only.							
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	× Below are the MCQ	S:
	=====	
	O#1: In the Cauchy'	s interpolation formula, what would

be value of

$$\left|\frac{f^{(n+1)}\left(\xi\right)}{(n+1)!}\right|$$

if
$$f\left(x
ight)= an\left(x
ight)\in\left[-\pi/4,\pi/4
ight]$$
nd $n=3$



It can not be determined. Need to now the nodes.

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Q#2: Which	of teh	following	is the	Runae	phenomen	on?
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- It is a phenomenon when nodes are chosen with unequal spacing.
- O It is the divergin phenomena at the end points, even though at the middleit converges.
-) As $n o \infty p_n \ (x) o f(x)$ always.
- It is special phenomenon that is associate dwith quadratic function only.

Q#3: Why are Chebyshev nodes an optimal choice in Interpolation?

- Because it takes more nodes on the edges and less nodes in the middle.
- Because it takes nodes randomly.
- Because node selection is problem specific in this technique, ensuring minimum error in each interpolation problem.
- Because it takes equally spaced nodes.

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