Pop Quiz # 1

PQ#1

6/8 points (ungraded)

Must answer your BracU ID and sction Number bwlow:

Write your BRACU ID#

19101239 ✖

What is your Theory class Section

- [ ] 1
- [ ] 2
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✖

Q#1: A polynomial expression contains 9 coefficients. What will be the degree of polynomial?

- (•) 8
- ( ) 10
- ( ) 7
- ( ) 11

✔

Q#2: A complex function (cannot be written as a sinple form) is interpolated by using 3 nodes on an interval [− 2, 2]. What kind of graph the interpolating polynimial will represent?

- ( ) an elipse
- ( ) a straight line
- ( ) a maxicun hat
- (•) a parabola
- ( ) None of the above

✔

Q#3: A function $f(x)$ is inperpolated by $P_5(x)$. The value of $|f(x) - P_5(x)|$ at the nodal point x_3 is

- ○ ∞
- ○ It can not be determined. Need to know the interval.
- ◉ 0

✔

Q#4: The function $f(x) = \sin(x)$ is interpolated by a degree five polynomial. What is the value of the coefficient a_4?

- ○ $\frac{1}{6}$
- ○ $-\frac{1}{7!}$
- ◉ 0
- ○ None of the above

✔

Q#5: According to Weierstrass approximation theorem, 1885,

- ◉ The higher the degree of polynomial, the lower the error of approximation
- ○ The lower the degree of polynomial, the lower the error of approximation

◯ None of teh above

✔

Q#6: The function $f(x) = \frac{1}{x+1}$ can be approximated by using a polynomial $p_n(x)$ according to Weierstrass Approximation Theorem in the interval [-2,2].

◉ False

◯ True

✔

Submit You have used 1 of 2 attempts

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