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Pop Quiz # 11

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5/7 points (graded)

In the following, write your BRACU ID# and section number first. After you submit the quiz, it will show that the ID# and Section numbers are wrong. Please ignore this messages. You score will based on the MCQs only.

= = = = =

Your BracU ID #

19101239   ✖

Your Theory class section #:

☐ 1

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✎

☐ –

☐ 3

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Below are the MCQs:

=====

Q#1: Which of the following statement is correct?

🔘 The fixed point iteration method can converge to multiple roots, but the bisection method cannot.

⭕ The fixed point iteration method cannot converge to multiple roots, but the bisection method can.

⭕ Both the fixed point iteration and the bisection methods cannot converge to multiple roots.

⭕ Both fixed point iteration and the bisection method can converge to multiple roots .

✔

Q#2: Which of the following is an "identity function"?

⭕ $y = x^2$

🔘 $y = x$

⭕ $y = x^3$

○ g w

○ None of the above

✔

Q#3: You can derive multiple $g(x)$ from $f(x)$ and all of them will converge to the roots of $f(x)$.

🔘 False.

○ True.

○ It can not be determined, need more information.

✔

Q#4: Suppose that for a function $f(x)$, $f(3) = 0$. What will be the value of $g(3)$ according to the fixed point iteration method?

○ 4

○ 2

○ 1

🔘 3

✔

Q#5: If $\lambda = 1$ then $g(x)$ will

🔘 diverge.

○ converge very quickly.

○ converge but very slowly.

○ converge to its closest root.

✔

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